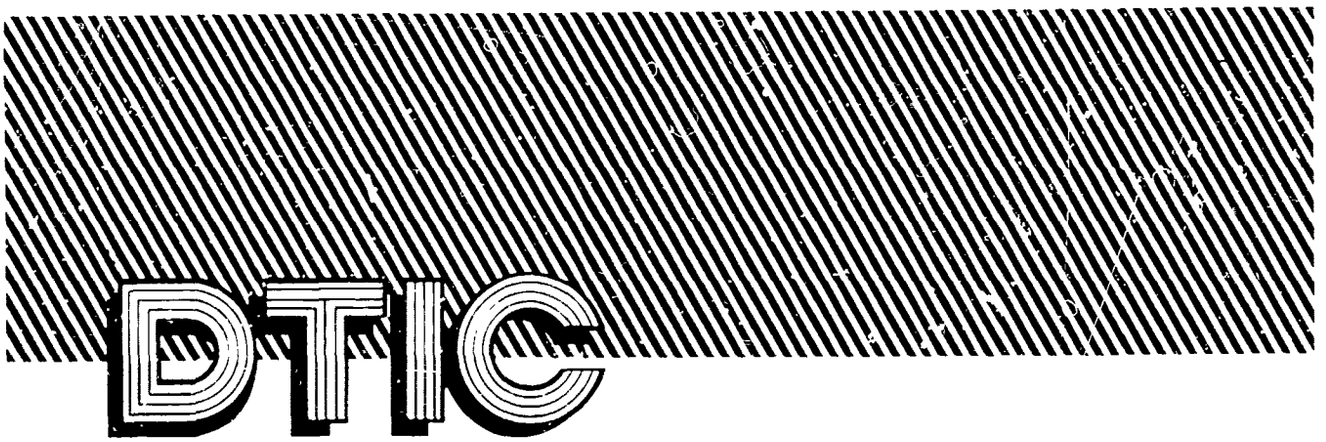
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DTIC/BIB-80/03

AD-A087 800

COST EFFECTIVENESS ANALYSIS

A DTIC BIBLIOGRAPHY

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18. SUPPLEMENTARY NOTES

Supersedes AD-A052 400

See also AD-738 800 and AD-771 705

19. KEY WORDS *(Continue on reverse side if necessary and identify by block number)*

*Cost Effectiveness	Management Planning & Control	
*Costs	Decision Making	Systems Engineering
*Bibliographies	Trade Off Analysis	Value Engineering
Cost Estimates	Logistics Planning	Life Cycle Costs
Cost Analysis	Economics	

20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

This bibliography contains unclassified-unlimited citaions of reports on *Cost Effectiveness Analysis*. These citations emphasize program evaluations, management techniques, research and development decision making, management problems, tradeoffs, related cost analysis and methodology, and systems value engineering. Four computer-generated indexes provided are: Corporate Author Monitoring-Agency, Subject, Title and Personal Author.

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F O R E W O R D

This bibliography contains 841 unclassified-unlimited citations on *Cost Effectiveness Analysis.*

These citations are studies and analyses pertaining to cost effective analysis relating to program evaluations, management techniques, desigr tradeoffs, related cost analysis and methodology, and systems value engineering.

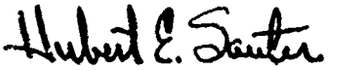
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This report supersedes DDC report bibliography on *Cost Effectiveness Analysis,* AD-A052 400, DDC BIB-78-01 dated April 1978.

Individual entries are arranged in AD number sequence under the heading bibliographic references. Computer generated indexes of Corporate Author Monitoring-Agency, Subject, Title and Personal Author are provided.

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C O N T E N T S

	Page
FOREWORD	iii
AD BIBLIOGRAPHIC REFERENCES	1
INDEXES:	
CORPORATE AUTHOR-MONITORING AGENCY	1
SUBJECT	1
TITLE	1
PERSONAL AUTHOR	1

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-B009 681 13/10 15/5 5/9

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CALIF

Facilities Maintenance Demonstration Study. (U)

DESCRIPTIVE NOTE: Final rept. 1 Oct 73-30 Jun 75,
JAN 76 98P Schwartz,Melvin A. ;
REPT. NO. NPRDC-TR-76-29
PROJ: SF555-25
TASK: SF555-25-21

UNCLASSIFIED REPORT

DESCRIPTORS: (*Frigates, Maintenance), (*Maintenance, Shipboard), (*Cost effectiveness, Naval personnel), Manpower, Cost analysis, Reduction, Attitudes(Psychology), Motivation, Skills, Naval training, Military facilities, Automation (U)
IDENTIFIERS: Facilities maintenance, Man hours, FF-1052 class vessels, Shipboard manning (U)

Facilities Maintenance (FM), as currently performed by shipboard personnel, requires a considerable expenditure of man-hours and material resources. Due to a number of problems and practices, FM is not performed efficiently. As a result, man-hour expenditures are excessively high; ship's condition, cleanliness and appearance deteriorate; crew morale and motivation are undermined; and cost to the Navy is increased. Potential solutions to underlying problems were studied on an operational ship of the FF 1052 class. The solutions included a team approach to the FM work; an information management system for work scheduling; audiovisual training program in FM; improvements in FM equipment and materials; and environmental improvements. The findings of the study indicated that: (1) a significant reduction in man-hour expenditures and cost to the Navy is feasible through a systematic innovation program; (2) skill and knowledge of FM team personnel was significantly improved; (3) shipboard spaces are cleaner and better maintained with FM innovations; and (4) attitude and motivation of FM personnel are not positively affected. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-B009 251 17/2.1 14/1

DEPARTMENT OF THE ARMY WASHINGTON D C

VHF-FM Portion of the Single Channel Ground and Airborne Radio SubSystem Concept Formulation Package. Appendix IV. Cost and Operational Effectiveness Analysis. (U)

DESCRIPTIVE NOTE: Technical rept. Jan-Oct 75,
OCT 75 33P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-C004 928L and Annex A to Appendix 4, AD-B009 252L.
DESCRIPTORS: (*Communication and radio systems, Very high frequency), (*Radio equipment, *Cost analysis), (*Cost effectiveness, Radio equipment), Effectiveness, Airborne, Channels, Ground support equipment, Frequency modulation, Electronic warfare, Threats, Performance, Vehicles, Manportable equipment, Communications networks (U)
IDENTIFIERS: *Operational effectiveness, SINCGARS project, Figure of merit, Subsystems, Concept formulation (U)

This appendix is a compilation of two separate and distinct cost and operational effectiveness analyses (COEA) which were conducted to evaluate the four alternatives recommended to satisfy the SINCGARS-V requirements. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-B007 209 5/9 14/1

CALSPAN CORP BUFFALO N Y

B-1 Systems Approach to Training. Volume II. Appendix A. Cost Details. (U)

DESCRIPTIVE NOTE: Final rept. Jul 74-Oct 75.
JUL 75 31P Reif,Hans G. ;Ring,William F. H. ;
REPT. NO. CALSPAN-FE-5558-N-1-Vol-2, CALSPAN-TM-SAT-1-Vol-2
CONTRACT: F33657-75-C-0021

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-B007 210L.
DESCRIPTORS: (*Flight training, Systems analysis), (*Air Force training, Cost estimates), Cost analysis, Flight crews, Jet bombers, Courses(Education), Training devices, Costs, Data bases, Base lines, Air Force procurement, Maintenance, Life cycles, Instructional materials, Cost effectiveness (U)
IDENTIFIERS: B-1 aircraft, Life cycle costing (U)

The purpose of this report is to document the details of the cost analysis for the B-1 Aircrew Training System. Included are the cost data base, which is the raw material from which cost estimates are made, the actual values used to evaluate the recommended, baseline system, and results from the other analyses which were conducted on selected parameters. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-B008 685 15/5 13/6

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

An Analysis of Cost Implications of Accomplishing Direct Support Maintenance Tasks for the Truck, 1/4-Ton, M151 Series at the Organizational Maintenance Level. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 75 133P Fischer,Donald C. , Jr:

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.
DESCRIPTORS: (*Trucks, Maintenance), (*Maintenance management, *Costs), (*Maintenance, Cost effectiveness), Army operations, Military vehicles, Management, Organizations, Optimization, Logistics support, Tools, Army training, Mechanics, Repair, Replacement, Automotive components, Computerized simulation, Statistical analysis (U)
IDENTIFIERS: *M-151 trucks(1/4-ton) (U)

The study tests the hypothesis that if responsibility for replacement of engines, transmissions, clutches, and steering gear assemblies for the M151 1/4-ton truck series was moved to organizational level, there would be significant cost savings. The history of automotive maintenance management is examined. Tool and training cost implications are investigated. A computer simulation generates direct support maintenance requirements, costs, and tests results for statistical significance. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-B006 333 17/9 9/5 14/1 13/10

NAVAL ELECTRONICS LAB CENTER SAN DIEGO CALIF

Multifrequency Arrays: Design and Cost Considerations. (U)

DESCRIPTIVE NOTE: Research and development rept. 3 Mar 69-2 Jul 75,
JUL 75 45P Provencher,J. H. ;Vaughn, G. ;Proctor,D. ;Boyns,J. E. ;
REPT. NO. NELC/TR-1956
PROJ: SF12-121, NELC-0215
TASK: SF12-121-417

UNCLASSIFIED REPORT

DESCRIPTORS: (*Phased arrays, Hydrofoil craft). Cost analysis, Phase shift circuits, Gain, Arrays, Costs, Weight, Lightweight, Errors, Search radar, Radar tracking, Extremely high frequency, Integrated circuits, Wavelengths (U)
IDENTIFIERS: Design, Multifrequency, Multiband antennas (U)

IAC ACCESSION NUMBER: GC-753059
IAC DOCUMENT TYPE: GACIAC -HARD COPY--
This report describes several multiband antenna techniques and a method of cost analysis for array antennas. A concept is given which has potential to reduce overall array costs for large phased array systems by using component commonality to propagate several frequency bands. Techniques which can be used to reduce the cost, weight, and complexity of phased arrays are given, as well as potential applications for these techniques on small craft such as the hydrofoil. (Author) (U)

IAC SUBJECT TERMS: G--(U)RADAR, MULTIFREQUENCY RADAR, RADAR ANTENNAS, PHASED ARRAY ANTENNAS, SEARCH RADAR, TRACKING RADAR, SIDELOBES, ANTENNA RADIATION PATTERNS, ANTENNA ARRAYS, PHASE ERROR, PHASE SHIFT, OMNIDIRECTIONAL ANTENNAS, ANTENNA SCANNERS, LIGHTWEIGHT, ELEVATION SCAN, GIGAHERTZ 2-3, SHIPBORNE EQUIPMENT, HYDROFOILS, COMPUTERIZED MODELS, COST ANALYSIS;

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-B002 859 1/3 14/1 11/4

DOUGLAS AIRCRAFT CO LONG BEACH CALIF

Conceptual Design Studies of Composite AMST. (U)

DESCRIPTIVE NOTE: Final technical rept. 29 May 73-23 May 74,
OCT 74 218P Nelson,W. D. ;Wilson,H. W. ;Hart-Smith,L. J. ;Cominsky,A. ;Scott, P. W. ;
REPT. NO. MDC-[redacted]446
CONTRACT: F33615-73-C-5164
MONITOR: AFML TR-74-164

UNCLASSIFIED REPORT

DESCRIPTORS: (*Short takeoff aircraft, *Composite materials). (*Composite materials, *Airframes). (*Cost analysis, *Short takeoff aircraft). Jet transport planes, Weight reduction, Graphite, Carbon fibers, Epoxy resins, Wings, Fuselages, Structural members, Horizontal stabilizers, Vertical stabilizers, Shells(Structural forms), Sandwich panels, Laminates, Sandwich construction, Honeycomb cores, Tape wound construction, Costs, Reduction, Life cycles, Maintenance, Performance(Engineering) (U)
IDENTIFIERS: Advanced medium STOL transports, C-15 aircraft, Thornel 300 fibers, Truss webs, JT8D-17 engines (U)

A current Advanced Medium STOL Transport (AMST) production aircraft configuration was used as a baseline to determine vehicle performance and cost improvements accruing from the maximal use of advanced composite materials in the airframe. The primary wing and empennage box structure and fuselage shell applications were emphasized together with selected applications in secondary structures to reduce the weight of the airframe. The properties of high-strength graphite-epoxy composites (representative of Thornel 300 fibers) were used in the application studies. Material costs representative of Thornel 300/epoxy prepreg and a lower cost pitch-based fiber/epoxy prepreg were used in the cost analyses. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-B002 031 17/2 12/2

MARTIN MARIETTA AEROSPACE ORLANDO FLA COMMUNICATIONS AND ELECTRONICS DIV

Integrated Tactical Communications System (INTACS). Task III. Communications System Effectiveness and Cost Methodology Development. (U)

DESCRIPTIVE NOTE: Final rept.
APR 74 240P
REPT. NO. OR-12822-1
CONTRACT: DAAG39-73-C-0248

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Task 4 Supplement dated Dec 74, AD-B002 032L.
DESCRIPTORS: (*Tactical communications, Integrated systems), Army, Systems analysis, Methodology, Cost effectiveness, Communications networks, Systems engineering, Computerized simulation, Cost analysis, Risk, Sensitivity, Trade off analyses (U)
IDENTIFIERS: MRTF(Mid Range Time Frame), Mid range time frame (U)

The cost and effectiveness methodology developed in Task III of the INTACS program offers a direct, dependable, and flexible means for evaluating the capabilities and cost of the candidate mid range time frame Army communications systems concerned. At the same time, it constitutes an effective tool for ranking these systems further on the basis of technological risk. Thus, the methodology developed will facilitate the selection of a preferred system as intended. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-B001 641 15/7 5/3 12/1 9/2

OHIO STATE UNIV COLUMBUS SYSTEMS RESEARCH GROUP

Development of a Dynamic Simulation Filter. (U)

DESCRIPTIVE NOTE: Final rept. Jun 71-Oct 74.
NOV 74 96P Clark,Gordon M. ;
McCartney,Charles ;
REPT. NO. RF-3248-FR-74-1(u)
CONTRACT: DAAH01-71-C-1258

UNCLASSIFIED REPORT

DESCRIPTORS: (*War games, *Decision theory), (*Computerized simulation, Optimization), (*Costs, Computerized simulation), Selection, Efficiency, Hypotheses, Filters, Correlation techniques, Experimental design, Variations, Subroutines, Reduction, Blocking, Estimates, Low costs, Random variables, Algorithms, Dynamic response, High resolution, Analysis of variance, Flow charting, Military tactics, Decision making, Land combat, Tactical analyses, Guided missiles, Weapon systems, Systems analysis, Casualties, Pseudo random systems, Mathematical models, Homogeneity (U)
IDENTIFIERS: Dyncom computer program, Filter models, Alternatives (U)

The Filter Simulation Experimental Concept for reducing the cost of identifying a preferred system alternative by a combat simulation is investigated. When using this concept, partial battles are simulated to screen candidate alternatives. The Filter concept of simulation experiments is an application of the block experimental procedure used in experimentation with physical systems. Increased correlation among alternatives improving the efficiency of the method is achieved by the use of common random number streams for all alternatives within a block. An experimental model was developed to represent effects of blocked experiments on combat simulation results, and this model includes heterogeneous variances and correlated effects. Using this model, estimators for the variance of average system performance and for the variance of the difference between the average performances of two systems were derived. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A082 423 12/2

CARNEGIE-MELLON UNIV PITTSBURGH PA MANAGEMENT SCIENCES RESEARCH GROUP

The Non Candidate Constraint Method for Reducing the Size of a Linear Program. (U)

DESCRIPTIVE NOTE: Management sciences research rept., FEB 80 17P Sethi,Awanti P. ;Thompson, Gerald L. ;
REPT. NO. MSRR-455, WP-52-79-80
CONTRACT: N00014-75-C-0621

UNCLASSIFIED REPORT

DESCRIPTORS: *Simplex method, *Cost effectiveness, Problem solving, Computations, Formats, Flow charting (U)
IDENTIFIERS: Constraints, NUNR047048 (U)

A non candidate constraint in a linear program is one which never contains a pivot element during the course of solving the problem. Discovering non candidate constraints is computationally costly since their discovery, in general, depends on the actual sequence of pivots used. Knowing which constraints are non candidate is of great computational benefit since they need not be kept in updated form. Our experience indicates that from 50 to 80 percent of the constraints in randomly problems are non candidates at least part of the time. In this paper we present a learning approach to the identification of non candidate constraints. At each iteration we determine which constraints can potentially be pivotal; these are candidate constraints and all others are non candidate constraints on that step. On proceeding with the simplex method we update only the candidate constraints. If a non candidate constraint becomes candidate on a later step, we update it and add it to the candidate list. Although the constant checking of constraints to see whether they are changing from being candidate to non candidate is computationally costly, we obtain the computational benefit of having to keep in updated form a much smaller tableau. The net benefit of using this strategy is positive and results in a 25 to 50 percent reduction in total computation time. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A082 343 5/9

MCDONNELL DOUGLAS ASTRONAUTICS CO-ST LOUIS MO

Low-Cost Terminal Alternative for Learning Center Managers. (U)

DESCRIPTIVE NOTE: Final rept., FEB 80 22P Nix,C. Jerome ;Tate, Thompson ;Dutka,Stephen C. ;Montgomery,Harold L. ;Showers,David P. ;
CONTRACT: F33615-78-C-0037
PROJ: 1121
TASK: 02
MONITOR: AFHRL TR-79-77

UNCLASSIFIED REPORT

DESCRIPTORS: *Terminals, *Data processing terminals, *Computer aided instruction, Training, Cost effectiveness, Requirements, Surveys, User needs, Cost analysis, Low costs, Costs, Reduction, Savings, Facilities (U)
IDENTIFIERS: WUAFHRL11210229, PE62205F (U)

This study established the feasibility of replacing high performance and relatively expensive terminals with less expensive ones adequate for supporting specific tasks of Advanced Instructional System (AIS) at Lowry AFB, Colorado. Surveys of user requirements and available devices were conducted and the results used in a system analysis. The results of the analysis formed the basis for determining the detailed hardware requirements and subsequent hardware selection, procurement and installation. Additionally, the software modifications necessary to accommodate the new hardware were made and the resultant total system was evaluated in an operational training environment. (Author) (U)

AD-A082 328 17/4 9/4 17/2.1

TEXAS A AND M UNIV COLLEGE STATION DEPT OF ELECTRICAL ENGINEERING

Low Cost Anti-Jam Digital Data-Links Techniques Investigations. Volume III. (U)

DESCRIPTIVE NOTE: Final technical rept. 1 Mar 78-15 Apr 79 On Phase 3,
MAY 79 77P Painter,John H. :
CONTRACT: F33615-75-C-1011
PROJ: 2305
TASK: 'R3
MONITOR: AFAL TR-77-104-VOL-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A048 181 and Volume 2, AD-A082 327.
DESCRIPTORS: *Radio antijamming, *Data links, *Information theory, *Signal processing, *Radio equipment, White noise, Radio navigation, Digital systems, Digital computers, Multipath transmission, Radio interference, Integrated systems, Mathematical models, Low costs, Monte Carlo method, Optimization, Algorithms, Modems, Sampling, Estimates, Demodulation, Airborne (U)
IDENTIFIERS: Recursive detectors, Colored noise, CDC 6600 computers, Multiplicative noise, IDEI(Integrated Detection Estimation and Identification), Additive noise, PE61102F, WUAFAL2305R301 (U)

This report documents the final phase of research under the subject contract. Previous results showed that the Minimum Probability of Error recursive detector for colored plus white noise, tracks the colored noise and subtracts it from the data. The present effort investigated the effects on optimum detector performance of carrier phase estimation. A good characterization of the effects was obtained. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A082 120 1/3 20/1

UNITED TECHNOLOGIES CORP WINDSOR LOCKS CONN HAMILTON STANDARD DIV

Influence of Noise Reduction on Weight and Cost of General Aviation Propellers. (U)

DESCRIPTIVE NOTE: Final rept..
JUN 79 111P Klatte,Robert J. ;Metzger, Frederick B. :
CONTRACT: DOT-FA78WA-4111
MONITOR: FAA-AEE 79-18

UNCLASSIFIED REPORT

DESCRIPTORS: *Propeller noise, *Noise reduction, Costs, Weight, Performance(Engineering), Aircraft, Civil aviation, Mathematical prediction, Blade airfoils, Sizes(Dimensions), Shape (U)
IDENTIFIERS: Arrow 2 aircraft, Debonair aircraft, Duchess aircraft, Twin Otter aircraft, General aviation (U)

Results of a study are reported in which the influence of noise reduction on weight and cost of propellers used in General Aviation aircraft was evaluated. Aircraft performance was not to be degraded by installation of the reduced noise propellers. Only propeller modifications were permitted. Engine modifications, such as introduction of a gearbox to reduce noise by reduction of RPM, were not permitted in the study. Major factors in noise reduction found promising in the study were (1) optimization of performance by use of the best available airfoils, (2) use of thin airfoils and a narrow elliptical tip blade planform, and (3) increasing the number of blades consistent with maintaining aircraft performance. For the three aircraft studied (a single engine, a light twin and a heavy twin) the flyover noise reduction potential varied from 3 to 8 dBA with no weight or cost penalty. Greater reductions in noise resulted in increased weight and/or cost penalties. Also, in some cases, engine noise would have to be reduced to achieve greater reductions. The progress by General Aviation aircraft manufacturer's in reducing noise is indicated by the finding that the most recent aircraft design had the smallest noise reduction potential. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A082 028 1/3 21/5 21/7

BOLT BERANEK AND NEWMAN INC CANOGA PARK CALIF

Cost/Benefit Tradeoffs Available in Aircraft Noise Technology Applications in the 1980's. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 79 175P Wilby,John F. ;Galloway, William J. ;
REPT. NO. BBN-3856
CONTRACT: DOT-FA77WA-4037
MONITOR: FAA/EE 80-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft noise, *Noise reduction, Jet transport planes, Jet engine noise, Turbomachinery, Combustion, Propeller noise, Piston engines, Airframes, Aerodynamic noise, Turbofan engines, Control, Benefits, Costs, Performance(Engineering), Trade off analyses (U)

The current status of aircraft noise control technology is reviewed to identify those measures that have a reasonable potential for application to aircraft coming into service in the 1980's. Noise reduction achievable when these noise control measures are applied to two transport category airplanes, a business jet, and a small propeller-driven twin is determined. Costs and performance penalties are determined for each noise control option. Benefits are measured by reductions in FAR 36 certification noise levels and in reductions in EPNL contour areas. The study shows that current, late 1970's, noise control practices permit transport category airplanes to meet the FAR 36 Stage 3 noise limits, yet application of additional noise control measures is not likely to provide additional reduction of the noise levels for these aircraft by more than 3 decibels. New business jet noise levels will be as much as 10 decibels lower than Stage 3 limits for takeoff, and as much as 5 decibels lower on approach, with additional reductions of more than 3 decibels unlikely. Introduction of newly designed, geared reciprocating engines would provide reductions of 10 or more decibels for high performance single and twin-engined, propeller-driven small airplanes, relative to existing practice. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A081 999 15/5

AIR FORCE ACADEMY CO

Some Fundamental Properties of Governmental Expenditure Patterns--Theory and Evidence Based on Military Expenditures. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 80 33P Weida,William J. ;
REPT. NO. USAFA-TR-80-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Forecasting, *Cost analysis, Weapons, Patterns, Theory, Risk, Weapon systems, Curve fitting, Growth(General) (U)
IDENTIFIERS: Government expenditures, Military expenditures (U)

This paper proposes the thesis that there is some common element which links all military expenditures. That element is the growth curve--the idea that government expenditures proceed in a logical, well-ordered pattern, building on what has happened in the past and predetermining what will happen in the future. Considered rationally, there is simply not other way to do things when large amounts of money and effort are expended. And yet, for reasons which are more based on the academic mystique than logic, this important, underlying factor which determines the way in which money is spent is seldom exploited. The result is poor forecasts, and the solution to the problem is simple. The research in this paper argues that the growth process is the driving force behind both individual weapon systems costs and the expenditure of monies in entire weapon cost categories. This research has also shown that a knowledge of the growth curve will allow useful forecasting in the presence of data so spare that time series techniques may not be able to function. In sum, the research cited in this paper would seem to indicate that, given the proper methods of normalizing the data and calculating the curve form, the growth curve could serve as the major tool in forecasting this and other countries' military expenditures. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOW07

AD-A081 990 13/9

THIOKOL CORP HUNTSVILLE AL HUNTSVILLE DIV

Methodology for Producing Low Cost/ Disposable Mandrels. (U)

DESCRIPTIVE NOTE: Final technical rept. Nov 78-Dec 79.
DEC 79 229P Webb,G. E. ;Vance,S. L. ;Manning,H. E. ;Clark,H. T. ;Byrd,J. D. ;

REPT. NO. U-79-03
CONTRACT: DAAK40-77-C-0009
MONITOR: DRSMI/RK CR-80-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Mandrels. *Production. *Methodology. Solid propellant rocket engines. Low costs. Disposal. Batch processing. Manufacturing. Casting. Tools. Foam. Curing. Pull tests. Cost estimates. Die casting. Injection molding (U)
IDENTIFIERS: Disposal mandrels (U)

This report describes work accomplished during a program to develop manufacturing methods and technology required to reduce the cost of batch processing of small, high production motors such as SEAS, Viper, and FFR by using disposable (low cost throw-away) casting fixtures using Quick Cure HTPB propellant. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOW07

AD-A081 859 22/1 9/2 14/1 15/5
22/2

RAND CORP SANTA MONICA CA

Cos -Effectiveness Measures of Replenishment Strategies for Systems of Orbital Spacecraft. (U)

DEC 79 57P Krell,Bruce E. ;
REPT. NO. RAND/N-1295-AF
CONTRACT: F49620-77-C-0023

UNCLASSIFIED REPORT

DESCRIPTORS: *Artificial satellites. *Replenishment. *Computerized simulation. *Cost effectiveness. Methodology. Life cycle costs. Launch vehicles. Space shuttles. Computer programming. Efficiency. Formats. Flow charting (U)

For many years the U.S. Air Force has employed large-scale, discrete-event digital simulation models for evaluating the cost-effectiveness of various replenishment strategies for operating satellite systems. The extensive use of computer simulation presupposes a problem complexity intractable to closed form or analytical solutions. This statement is true if analysis requires a great amount of detailed information. This Note demonstrates that there is a level of aggregation of the data inputs at which closed form tractability may be attained. Moreover, given this input aggregation representing failure patterns and replenishment strategies, the exact closed forms for approximating cost-effectiveness are derived. The closed form expressions for the cost-effectiveness of satellite systems are not meant to replace the large-scale simulation programs. The aggregate level measures can be most effectively employed to check the computer programs for internal consistency and to narrow the focus of acceptable inputs into the large-scale simulation. Proper use of the analytical tools presented herein can reduce the computational effort by significantly reducing the number of simulation runs necessary to identify the most attractive replenishment methods. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A081 759 14/1 5/3

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO FL

Incremental Costing Model for Use with the CNET Per Capita Course Costing Data Base: System I. (U)

NOV 79 104P Swope,William M. ; Yelvington,Cynthia ;Corey,James M. ;
REPT. NO. TAEG-77

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Cost models, *Cost analysis, *Training, *Data bases, Education, Cost effectiveness, Economic analysis, Inflation(Economics), Planning, Estimates, Resources, Scaling factors, Billets(Personnel), Requirements, Specifications, Navy (U)
IDENTIFIERS: Incremental costing models, Fixed costs, Variable costs (U

This cost model is designed to separate the fixed and variable costs of training. It is designed for use with the Per Capita Training Data Base being maintained by the Chief of Naval Education and Training. The model will estimate the change in total costs as a function of the change in training load, the operation or planning period resource characteristics and current utilization rate of training resources. The model includes, a number of user defined options, including options for adjusting the revised average total cost for scale effects and for inflation. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A081 666 9/5 20/12

RCA SOLID STATE DIV SOMERVILLE NJ

Phase II Final Development Report for High-Reliability, Low-Cost Integrated Circuits. (U)

DESCRIPTIVE NOTE: Final rept. 3 Feb 77-22 May 79.
MAY 79 122P
CONTRACT: N00039-76-C-0240
PROJ: F54586
TASK: XF54586002

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Phase 1. AD-A039 954.
DESCRIPTORS: *Integrated circuits, *Complementary metal oxide semiconductors, Shift registers, Operational amplifiers, Transistor transistor logic, Silicon nitrides, Schottky barrier devices, Nand gates, Low costs, High reliability, Chips(Electronics), Bonding, Wafers, Passivity, Copper, Gold, Fabrication, Manufacturing, Automation (U)
IDENTIFIERS: Beam tape bonding, Lead bonds, Automated assembly system, Sealed chip processing, Bonding tapes, Lead frames, Plastic packages, Ceramic packages, Gold bumps, PE62762N (U)

The objectives of Phase II of this investigation were to fabricate significant quantities of eight integrated circuit types using the techniques defined in Phase I (see Phase I Final Development Report for High Reliability, Low Cost Integrated Circuits), perform a preliminary reliability investigation, and formulate comparative cost data. Wafers and finished devices were processed for eight integrated-circuit types. These types included three TTL circuits (5420, 5472, 5470), one Schottky TTL circuit (54S20), three CMOS circuits (CD4012B, CD4014A, CD4027A) and one linear circuit (CA741). The preliminary reliability investigations defined potential reliability problems, which were subsequently successfully resolved, and provided preliminary data regarding activation energies and failure rates. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A081 604 9/2

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Complexity as a Factor of Quality and Cost in Large Scale Software Development. (U)

DESCRIPTIVE NOTE: Master's thesis,
DEC 79 98P Harris,Joe Newton ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programs, *Research management, Quality, Cost estimates, History, Systems analysis, Models, Graphs, Management planning and control, Systems management, Test methods, Allocations, Resources, Theses (U)
IDENTIFIERS: Software development, Complex programming, Computer models, Large scale systems (U)

The impact of complexity on software quality and costs is examined. Historic and current issues relating to complexity in the software development and software cost estimation processes are reviewed. Select complexity models and metrics are described and briefly analyzed. Finally, an argument is presented in support of McCabe's Directed Graph Model as a useful software management tool in controlling complexity, formulating a test strategy and allocating resources. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A081 513 15/5 5/1 5/9

ASSESSMENT GROUP SANTA MONICA CA

Manpower/Hardware Life Cycle Cost Analysis Study. (U)

DESCRIPTIVE NOTE: Rept. for Oct 77-Dec 78,
NOV 79 495P York,Francine Y. ;Butler, Robert A. ;Eskew,Henry L. ;
CONTRACT: N00014-77-C-0809

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Administrative Sciences Corp., Alexandria, VA. Contract N00014-77-C-0811.
DESCRIPTORS: *Acquisition, *Naval procurement, *Life cycle costs, *Weapon systems, Manpower, Cost models, Naval personnel, Naval training (U)

The Manpower/Hardware Life Cycle Cost (LCC) Analysis Study was conducted to analyze life cycle cost models and methods, with particular emphasis on Manpower, Personnel and Training Support (MP&TS) costs, and their contribution to total system economic costs over the life cycle of a weapon system. The study's principal objective was to examine the Weapon System Acquisition Process (WASP) to determine when manpower/hardware tradeoffs should be made, the level of detail necessary, and specifications for the MP&TS LCC model necessary to perform the analysis. Existing Navy MP&TS cost models are examined to determine their ability to accurately reflect the economic cost of military manpower relevant for tradeoff decisions. Several hardware costing techniques are also reviewed to determine their usefulness for conducting hardware/manpower cost tradeoff analyses. The report makes specific recommendations and proposes guidelines for the development of cost models and techniques that facilitate hardware/manpower tradeoff analysis. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A081 492 15/5

FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING

Production Lot Sizing with Material Handling Cost Considerations. (U)

DESCRIPTIVE NOTE: Research rept.,
DEC 79 31P Hodgson,T. J. ;Lowe,T. J. ;
REPT. NO. RR-79-7
CONTRACT: N00014-76-C-0096

UNCLASSIFIED REPORT

DESCRIPTORS: *Industrial production, *Storage, Materials handling, Warehouses, Automatic, Allocations, Cranes, Travel, Costs, Optimization, Mathematical models, Computer programming (U)
IDENTIFIERS: Lot sizing, AS14D, PE61102A (U)

The determination of production lot sizes and the assignment of storage space in a warehouse for the produced items are usually treated as two separate problems: The former providing input (space needed) to the latter. In this paper, we treat the decision problems as one with the objective of minimizing total setup, inventory carrying, and warehouse material handling cost. We treat the minimum material handling cost as a continuous function of the lot sizes and develop an algorithm for finding locally optimal solutions of the derived optimization problem. Computational experience is provided and applications to automated warehousing systems are discussed. (Author) (U)

AD-A081 492

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A081 146 5/1 13/10

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Rate Stabilization and Its Impact on U. S. Naval Shipyards. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 79 43P Walters,Melville Joseph , III:

UNCLASSIFIED REPORT

DESCRIPTORS: *Management planning and control, *Costs, Rates, Allocations, Stabilization, Shipyards, Naval shore facilities, Job analysis, Theses (U)
IDENTIFIERS: Rate stabilization (U)

The eight United States Naval Shipyards commenced operation under the rate stabilization concept in 1976. Rate stabilization refers to the use of annually predetermined rates for the billing of customers for work accomplished in the shipyard. A primary objective of rate stabilization was to provide improved planning and budgeting to the customer and the shipyard. The objective of this thesis was to assess the impact of rate stabilization on the U.S. Naval Shipyards. Conclusions are that the overall operational, planning and programming advantages provided by rate stabilization more than offset the disadvantages. Indications are that the concept of rate stabilization is working and that the shipyards are learning to work within the program. It is important that, once stabilized rates have been set, major changes in workload at the individual shipyards do not occur. (Author) (U)

AD-A081 072 9/2

MCDONNELL DOUGLAS ASTRONAUTICS CO-ST LOUIS MO

Low-cost Computer-Aided Instruction/ Computer-Managed Instruction (CAI/CMI) System: Feasibility Study. (U)

DESCRIPTIVE NOTE: Final rept.. DEC 79 152P Lintz,Larry M. ;Tate, Thompson ;Pflasterer,David C. ;Nix,C. Jerome ;Klem,Thomas G. ;
CONTRACT: F33615-78-C-0031
PROJ: 1121
TASK: 02

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer aided instruction, *Computer programs, *Low costs, Programming languages, Management training, Teaching methods, Supervisors, Air Force training, Computers, Area coverage, Feasibility studies, Functions, Surveys (U)
IDENTIFIERS: CMI(Computer Managed Instruction), Technical training, WUAFHRL11210228, PE62205F (U)

This study investigated the feasibility of a low-cost computer-aided instruction/computer-managed instruction (CAI/CMI) system. Air Force instructors and training supervisors were surveyed, to determine the potential payoffs of various CAI and CMI functions. Results indicated that a wide range of capabilities had potential for resident technical training. Surveys of selected computers, terminals, communications, and support software identified candidates for the low cost system. (Author) (U)

AD-A080 962 1/3 14/1 13/8

BATTELLE COLUMBUS LABS OH

Briefing on Manufacturing Technology (MT) Cost Driver Analysis Program to Naval Air Systems Command, Department of the Navy, Washington, D.C.. (U)

JUN 79 204P Noton,Bryan R. :
CONTRACT: DLA900-78-C-1715

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft, *Life cycle costs, *Manufacturing, *Cost analysis, Costs, Reduction, Airframes, Aircraft engines, Systems engineering (U)
IDENTIFIERS: Cost drivers (U)

This study is in response to the urgent need to reduce manufacturing costs of aircraft systems. The subsystems studied were airframes;engines; mechanical and hydraulic systems; and crew systems. This study was only concerned with cost drivers in the manufacture of components in aerospace companies, i.e., acquisition costs. The objectives of this manufacturing technology (MT) cost-driver analysis program were to: identify cost drivers in Navy aircraft manufacture, identify cost driver commonality, and provide a basic framework for evaluating manufacturing technology (MT) projects. General conclusions from this study are that we must accelerate our efforts to change the emphasis from only performance to affordable performance. Spiraling aircraft costs must be better controlled. It was also concluded that many costs drivers are designed into aircraft. Further conclusions related to MT are minimum new MT has been introduced into production in the past 10 years, most MT cost drivers are common to all subsystem, MT projects should be selected that provide a high return-on-investment (ROI), emerging MT still displays significant cost drivers, MT should be developed and proven acceptable before introduction into production, and developing MT on a production program is seldom cost effective. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A080 945 17/7 14/1

ARINC RESEARCH CORP ANNAPOLIS MD

Avionics Cost Development for Civil Application of Global Positioning System. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 79 97P Kowalski,S. H. :
REPT. NO. 1326-01-7-1873
CONTRACT: DOT-FA76WA-3788
MONITOR: FAA-EM 79-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Global positioning system, *Cost estimates, Cost analysis, Avionics, Systems analysis, Civil aviation, Procurement, Electronic equipment, Parts, Tables(Data), Methodology, Computations (U)

This report presents the results of the cost analysis of avionics required in support of the civil application of the Global Positioning System (GPS). The design considered for analysis was chosen because of the advanced state of development which provided the necessary data for cost evaluations. The costs of avionics were developed using both the parametric and accounting methods of cost estimating. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A080 930 21/5 1/3 14/1

RAND CORP SANTA MONICA CA

An Approach to the Life-Cycle Analysis of Aircraft Turbine Engines. (U)

DESCRIPTIVE NOTE: Interim rept.,
DEC 79 62P Nelson,J. R. :
REPT. NO. RAND/N-1337-AF
CONTRACT: F49620-77-C-0023

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. R-2103-AF dated Nov 77, AD-A050 349 and Rept. no. RAND/R-2391-AF dated Apr 79, AD-A069 282.
DESCRIPTORS: *Gas turbines *Aircraft engines, *Life cycle costs, Cost analysis, Cost effectiveness, Methodology, Jet fighters, Monitoring, Forecasting (U)

A paper prepared for the AGARD/NATO Lecture Series, 'The Application of Design to Cost and Life-Cycle Cost to Aircraft Engines,' scheduled for May 1980. A methodology is described for life-cycle analysis of aircraft turbine engines from historical data. The methodology enables the weapon-system planner to acquire early visibility of cost magnitudes, proportions, and trends associated with a new military engine's life cycle, and to identify 'drivers' that increase cost and can lower capability. The methodology is applied at the engine subsystem and aircraft system levels for a military fighter aircraft to demonstrate that decisions about engine performance/schedule/cost must be made at the system level. Commercial considerations are discussed, as is limited historical experience in engine monitoring, an approach to obtaining the necessary information and procedures for performance and cost feedback to the engine designer. This Note presents portions of previously published Rand work on life-cycle analysis of aircraft turbine engines and engine monitoring systems, together with some recent unpublished work applying the earlier efforts at the aircraft system level. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A080 808 17/1 9/2

RCA GOVERNMENT COMMUNICATIONS SYSTEMS SOMERVILLE N J
ADVANCED COMMUNICATIONS LAB

Low Cost, Low Power Dissipation Micro-Signal Processor for Acoustic Signal Processing. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 79 23P Hampel,D. ;Bradshaw,J. L. ;Prost, K. J. ;
CONTRACT: N00014-78-C-0776
PROJ: F11121
TASK: RF11121801

UNCLASSIFIED REPORT

DESCRIPTORS: *Sonar sound analyzers, *Signal processing, *Processing equipment, *Microprocessors, *Fast fourier transforms, *Acoustic signals, Complementary metal oxide semiconductors, Computer programs, Monolithic structures(Electronics), Analog to digital converters, Low costs, Low power, Deployment, Capacitors (U)
IDENTIFIERS: 1802 Microprocessors, Multipliers, Switched capacitors, PE62711N (U)

A low cost, low power dissipation micro-signal processor has been designed and built for application to deployed sensors. Using latest technology, state-of-the-art components, this microprocessor based system has been programmed, and demonstrated in performing 1024 point fast Fourier transforms (FFT's) on 8-bit input within one second, as well as a variety of associated data acquisition and control functions. All necessary functions for a self-contained, stand alone acoustic processor were incorporated in a 410 cu. cm. feasibility brassboard, dissipating an average of 50 mw. All essential components were either CMOS or CMOS/SOS, including the standard commercially available 1802 microprocessor, and, a special LSI multiplier required for expediting the computations needed for the FFT. Major hardware and software issues are discussed, followed by an exposition of emerging technology IC's, leading to even smaller, lower cost, lower power dissipation processors. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A080 652 5/3

GENERAL ACCOUNTING OFFICE WASHINGTON DC PROCUREMENT AND SYSTEMS ACQUISITION DIV

Financial Status of Major Federal Acquisitions, September 30, 1979. (U)

FEB 80 115P
REPT. NO. GAO/PSAD-80-25

UNCLASSIFIED REPORT

Availability: U.S. General Accounting Office, Distribution Section, Room 1518, 441 G. St., Nw, Washington, DC 20548. (No copies furnished by DTIC/NTIS). Document partially illegible.
SUPPLEMENTARY NOTE: Report to the Congress.
DESCRIPTORS: *Costs, Inflation(Economics), Acquisition, Government procurement, Weapon systems, Federal budgets, Tables(Data) (U)

This report concerns the financial status of major acquisitions of the U.S. Government, including acquisitions financed solely with Federal funds and those financed jointly with Federal, State, and other funds. Because of the numerous projects involved, we obtained explanations for cost growth only for those weapon systems included on selected acquisition reports of the Department of Defense and for other projects having cost increases of 100 percent or more. Inflation, engineering, and quantity changes were identified as the major causes of cost growth. Sixty-four projects, estimated to cost $16.5 billion, have been in process more than 20 years. Seven are more than 50 years old. The Congress may want to review these older projects to see if they are progressing satisfactorily. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A080 518 1/3 13/9

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND ST LOUIS MO

Cost Analysis of a Helicopter Transmission and Drive Train. (U)

DESCRIPTIVE NOTE: Technical memo..
NOV 79 46P Mulliken,Richard F. :
REPT. NO. USAAVRADCOM-TM-80-D-2
PROJ: 1L162209AH76
TASK: 00

UNCLASSIFIED REPORT

DESCRIPTORS: *Helicopters, *Transmissions(Mechanical), *Drives, *cost analysis, Tail rotors, Gears, Mechanical components, Costs, Engineering drawings (U)
IDENTIFIERS: *Drive trains, PE62209A, ASH76, WU248 (U)

A cost analysis was conducted on a transmission and drive train system from a single-engine helicopter with an imput of 1134 hp at 6600 rpm. Main rotor speed was 325 rpm. Details and subassemblies of this system were identified using the Army Technical Manual. Prices of spare parts were obtained from the Army Master Data File (AMDF). Irregularity in the prices found showed that it was impossible to identify specific cost drivers or to develop any valide cost baseline or to obtain valid comparative detail costs using this data base. In view of this situation, plans to analyze a second sytem were abandoned. A detailed review of the data obtained strongly indicated that gears, forgings, and castings are the cost drivers in this system. Since all such systems employ components of similar nature and function, this indication is applicable to other transmission systems and should therefore be useful as an aid in directing cost-reduction efforts. Manufacturing approaches by which costs on such parts may be reduced are suggested. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A080 196 12/2 15/5

LOGISTICS MANAGEMENT INST WASHINGTON DC

Statistical Risk Properties of the Logistic Support Cost Commitment. (U)

DEC 79 121P Collins,Dwight E. :
REPT. NO. LMI-ML900
CONTRACT: MDA903-77-C-0370

UNCLASSIFIED REPORT

DESCRIPTORS: *Logistics support, *Cost estimates, *Operations research, Risk, Statistical analysis, Costs, Reliability, Design to cost, Life cycle costs, Cost models (U)

In recent years, several new contractual arrangements have been devised to estimate, target, and track logistic support costs during the acquisition phase. One of these is a contractual mechanism known as a Logistic Support Cost Commitment (LSCC), sometimes referred to as a Support Cost Guarantee. The objective of the LSCC is to motivate the contractor to design his equipment to have reduced logistic support costs through increased reliability and maintainability (R&M) when fielded. This report documents research into the statistical properties of the LSCC. The LSCC utilizes one of a broad class of statistical estimators, which are complex mathematical functions of simpler estimators whose statistical properties are well known. In the LSCC case, the complex estimator is a cost function, and incorporates such simpler estimators as rates of occurence, durations of activity, and physical distribution of activity. It also includes constant cost rates. The research documented is primarily mathematical. It does not treat in-depth the numerous qualitative issues regarding LSCC use. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A080 130 1/3 14/1 20/1

NOAH (J WATSON) INC FALLS CHURCH VA

Costs and Benefits of Requiring New Production of Older Aircraft Types to Meet Amended Noise Standards. (U)

DESCRIPTIVE NOTE: Final rept.. SEP 79 75P Day.C. F. ;Studholme.E. D. ;
CONTRACT: DOT-FA78WA-4192
MONITOR: FAA/EE 79-22

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Includes errata sheet dated 10 Jan 80.
DESCRIPTORS: *Industrial production, *Jet engine noise, *Costs, Jet transport planes, Standards, Benefits, Operation (U)

This report examines costs and benefits associated with requiring new production of older aircraft models to meet amended noise standards. Two cases are examined: (1) all aircraft produced after 1983 must meet a noise [illegible] standard halfway between Stage 2 and Stage 3 limits; and (2) all aircraft produced after 1985 must meet Stage 3 noise standards. The cost elements are combined and expressed as a change in direct operating costs in either cost-per-passenger mile or cost-per-aircraft mile, as appropriate. Noise benefits are estimated in terms of the change in area under a 100 EPNL contour resulting from the amended standards. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A080 110 1/2

ARMY SAFETY CENTER FORT RUCKER AL

Survey of Forced and Precautionary Landing Costs. (U)

DESCRIPTIVE NOTE: Technical rept.. JUL 79 24P Spezia.Emil ;Kimel.G. D. ; Neese.Thomas ;
REPT. NO. USASC-TR-79-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft landings, Surveys, Questionnaires, Costs, Cost analysis (U)
IDENTIFIERS: *Forced landings (U)

A questionnaire survey was conducted to learn the costs of forced landings (F/Ls) and precautionary landings (P/Ls). The questionnaire elicited cost data in respect to (1) the effect each mishap had on the mission assigned the mishap aircraft, (2) man-hours lost by the crew and passengers, (3) man-hours required to recover the crew, passengers, and aircraft, (4) time the mishap aircraft was unavailable for flight, (5) man-hours required to make the aircraft flyable, and (6) the components that malfunctioned to cause these mishaps. The broad and obscure costs revealed by the survey are sufficient to justify the initiation of a concerted effort to prevent the causes of these mishaps. Prevention of the causes of these mishaps will allow aviation units to operate more efficiently, i.e., allow them to maintain a higher state of combat readiness. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A080 089 5/1 5/3

ANALYTIC SCIENCES CORP ARLINGTON VA

Modeling Navy Ship Acquisition. (U)

DESCRIPTIVE NOTE: Final rept. on Phase 2, part 1,
DEC 79 73P Towle,William J. ;Moore,
David H. ;O'Brien,Mike J. ;
REPT. NO. TASC-TR-1337-2
CONTRACT: N00014-78-C-0436

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval procurement, *Cost models, Algorithms, Computerized simulation, Naval vessels, Shipbuilding, Allocations, Contract administration, Naval planning, Shipyards, Productivity, Market research, Lagrangian functions, Inflation(Economics), Data bases, Computer programming (U)

During the first phase of this contract, TASC performed a preliminary analysis of the cost and feasibility of developing a model to aid in achieving an efficient work load distribution in the shipbuilding industry through competitive allocation. This included a detailed investigation of the planning and procurement methods currently used by the Navy as well as considering the feasibility of developing an analytic tool to aid the Navy in achieving an efficient work load distribution in the shipbuilding industry. The present study provides continuing background analyses to refine the equation set, to improve the validity of the analytic approach, and to demonstrate the feasibility of the data requirement for the model. Background analyses were performed on: (1) The extent of planning problems which result from government furnished equipment, subcontracts and material; (2) The influence of government procurement strategy and contract form on the price and competitive relationships; and (3) The importance of commercial production and repair and conversion with a view to proper incorporation of these effects in the model for Navy planning purposes; and (4) Competition in the industry. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A079 804 14/1 1/3 15/5

GENERAL ACCOUNTING OFFICE WASHINGTON DC PROCUREMENT AND SYSTEMS ACQUISITION DIV

The Air Force Should Recover Excess Costs of Prior F-15 Contracts and Take Action to Save Costs on Future F-15 Contracts. (U)

OCT 79 31P
REPT. NO. GAO/PSAD-80-4

UNCLASSIFIED REPORT

Availability: U.S. General Accounting Office, Distribution Section, Room 1518, 441 G. St. Washington, DC 20548 (No copies furnished by DTIC).
DESCRIPTORS: *Cost overruns, *Cost analysis, Profits, Contracts, Aircraft equipment, Air Force procurement, Cost effectiveness, Jet fighters (U)
IDENTIFIERS: Production materials, F-15 aircraft (U)

In reviewing production material costs proposed by the McDonnell Douglas Corporation, St. Louis, Missouri, we found that the target cost of contract F33657-77-C-0200 is overstated by about $2.4 million because the contractor did not use current, accurate, and complete cost or pricing data to negotiate production material costs. Also, since the contractor's profit was added to this overstatement, about $2.7 million excess cost to the Government will result. (U)

AD-A079 580 14/1

GENERAL ACCOUNTING OFFICE WASHINGTON DC FEDERAL PERSONNEL AND COMPENSATION DIV

Defense Use of Military Personnel In Industrial Facilities, Largely Unnecessary and Very Expensive. (U)

MAY 79 47P
REPT. NO. GAO/FPCD-79-10

UNCLASSIFIED REPORT

Availability: U.S. General Accounting Office, Distribution Section, Room 1518, 441 G Street, NW. Washington, DC 20548 (No copies furnished by DTIC).
SUPPLEMENTARY NOTE: See also Rept. no. FPCD-76-7.
DESCRIPTORS: *Job analysis, *Cost analysis, Industries, Military personnel, Industrial plants, Comparison, Department of Defense, Civilian personnel (U)

In April 1976 a report 'Maintaining a Military Presence in an Industrial Environment,' was issued. That report, a case study of military staffing at the Naval Weapons Support Center, Crane, Indiana (Crane), pointed out the cost savings and other advantages of using civilians instead of military personnel in an industrial environment. It also pointed out that the Department of Defense (DOD) operates a large number of other commercial and industrial military support activities. The report estimated that about 10,000 military personnel were assigned to such activities even though the work forces were predominantly civilian. In view of the findings at Crane, it is recommended that the Secretary of Defense correct the situation and review all other such activities for potential reduction of military personnel. (U)

AD-A079 495 1/5 9/2

YANG (NAI C) AND ASSOCIATES NEW YORK

Nondestructive Evaluation of Airport Pavements. Volume II. Operation Manual for PAVBEN Program at TCC. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 79 124P Yang,David :
CONTRACT: DOT-FA77WA-3964
MONITOR: FAA-RD 78-154-2

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: See also Volume 3. AD-A079 591.
DESCRIPTORS: *Pavements, *Runways, *Computerized simulation, Cost analysis, Benefits, Computer programs, Input, Output, Subroutines, Programming manuals (U)
IDENTIFIERS: PAVBEN computer program, Cost benefit analysis (U)

Cost/benefit analysis of alternative pavement design is the primary goal of the PAVBEN program at the Transportation Computer Center (TCC) in Washington, D.C. The integrated system is data independent based on defined mathematical models and operation logic. The program is written in a high level language FORTRAN IV. The job inputs consist of: (1) NDT field data; (2) types of existing pavements; (3) facility classifications; (4) demand forecast; and (5) local cost values. The default system contains all design data for: (1) 15 air transports; (2) 9 FAA regional cost values; (3) 8 types of pavement design; (4) 22 layer components; (5) 20 types of existing pavement; and (6) universal mechanistic design model. The major outputs will be: (1) NDT inventory file; (2) present functional life; (3) computed engineering data; (4) pavement thickness and cost data; and (5) cost/benefit analysis for four new pavements, three overlays and three keel constructions. The operation of PAVBEN program involves extensive use of data storage, filing technique and computed data inputs. The current operation program and this manual are prepared for the execution on computer hardware system at TCC. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A079 293 1/3 20/4

ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT NEUILLY-SUR-SEINE (FRANCE)

Low Cost Aircraft Flutter Clearance. (U)

DESCRIPTIVE NOTE: Conference proceedings.
SEP 79 115P
REPT. NO. AGARD-CP-278

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Meeting of the Structures and Materials Panel (48th), 4 Apr 79, Williamsburg, VA.
DESCRIPTORS: *Aircraft, *Flutter, Low costs, Lightweight, Gliders, Remotely piloted vehicles, Requirements, Vibration, Degrees of freedom, Stability, Test methods, Velocity, Wings (U)
IDENTIFIERS: Light aircraft (U)

Light aircraft and gliders are constructed by small manufacturers who do not have the manpower or financial resources to evaluate flutter safety with the costly modern sophisticated test and analysis techniques available to large companies. Future low cost reconnaissance, liaison, RPV and other military aircraft could be designed and built by such small aircraft manufacturers. This Specialists Meeting was therefore held to evaluate the usage of low cost aircraft flutter clearance procedures. Some results occurring from such procedures (weight efficiency, safety, flight incidents, and overall costs) were discussed relative to those from methods using advanced state-of-the-art. The relative technological-financial position of the small lightweight aircraft manufacturer was also discussed. The difficulties that still exist and the progress to be expected in the next few years were exposed. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A079 038 1/3 14/1 15/7 9/2

DIRECTORATE OF AEROSPACE STUDIES KIRTLAND AFB N MEX

COEFUV: A Computer Implementation of a Generalized Unmanned Vehicle Cost Model. (U)

DESCRIPTIVE NOTE: Final rept..
OCT 78 78P Bomber ,Thomas M. ;Feuchter, Christopher A. ;
REPT. NO. DAS-TR-78-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Remotely piloted vehicles, *Costs, *Cost effectiveness, *Computerized simulation, Unmanned, Models, Computer programs, Input, Output, Tactical warfare (U)
IDENTIFIERS: COEFUV(Cost Effectiveness of Unmanned Vehicles) (U)

This document summarizes a method of determining the cost and cost effectiveness of ground-launched, recoverable unmanned airborne vehicle (e.g., remotely piloted vehicle) operations in a tactical environment. The inputs and outputs of a computer code implementing the methodology are described in detail and a listing of the code is presented. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A078 793 14/1 9/2

AIR FORCE AVIONICS LAB WRIGHT-PATTERSON AFB OH

Application of the RCA PRICE-S Software Cost Estimation Model to Air Force Avionics Laboratory Programs. Revision. (U)

DESCRIPTIVE NOTE: Final technical rept. Jan 78-Jul 79,
OCT 79 51P James,Thomas G. , Jr. ;
Ferens,Daniel V. ;
REPT. NO. AFAL-TR-79-1164
PROJ: 2003, 6095
TASK: 09, 15

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Revision of Rept. no. AFAL-TM-78-25.
DESCRIPTORS: *Cost models, *Computer program verification, *Avionics, Computer programs, Cost effectiveness, Life cycle costs, Configuration management, Simulators (U)
IDENTIFIERS: Price-S software cost estimate model, WUAFAL60951502, PE62204F, WUAFAL20030902 (U)

This report covers work conducted in-house by the System Evaluation Group (AAA-3), Avionic Systems Engineering Branch, Air Force Avionics Laboratory, Wright-Patterson AFB, Ohio 45433. This work was a calibration and validation of the proprietary RCA Corporation PRICE-S software development cost model to four AFAL software programs. The results of the study are that PRICE-S appears to work well for Air Force Avionics Laboratory programs and more validation/Calibration studies should be done. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A078 656 14/1 9/2

ARMY ARMAMENT MATERIEL READINESS COMMAND ROCK ISLAND IL DECISION MODELS DIRECTORATE

Venture Evaluation and Review Technique (VERT). Users'/Analysts' Manual. (U)

DESCRIPTIVE NOTE: Final rept.,
NOV 79 100P Moeller,Gerald ;
REPT. NO. DRSAR-DM-T905

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost models, *Computerized simulation, *Programming manuals, *Decision Making, *Linear programming, Adaptive systems, Symbols, Networks, Monitors (U)
IDENTIFIERS: VERT(Venture evaluation and Review Technique), Risk analysis, Schedule risks, Performance risks, Users manuals, Capital requirements, Venture evaluation (U)

This Users'/Analysts' Manual provides information in sufficient detail to permit installation and application of the VENTURE EVALUATION AND REVIEW TECHNIQUE (VERT). VERT is a computerized, mathematical oriented simulation network technique designed to model decision environments under risk. Historically, VERT has been used principally to assess the risks involved in the undertaking of a new venture, as well as in the estimation of future capital requirements, control monitoring, and overall evaluation of on-going projects, programs, and systems. Modeling is accomplished with a small set of easily comprehended operators which readily facilitates the structuring of a symbolic pictorial network layout of the system under study. VERT is an adaptive tool, thereby allowing the scope and level of abstraction to rest almost entirely in the hands of the analyst. Thus, modeling can be accomplished on a one-for-one basis, whereby one real world event and activity is correspondingly represented symbolically as one event and activity in the VERT network; or, modeling can also be accomplished on a compressive basis whereby a multitude of real world events and activities are compressed into the symbolic representation of a few events and activities in the VERT network. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A078 298 5/1 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING

Aircraft Airframe Cost Estimation Using a Random Coefficients Model. (U)

DESCRIPTIVE NOTE: Master's thesis.
DEC 79 65P Hinch,James H. :
REPT. NO. AFIT/GOR/SM/79D-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Airframes, *Cost estimates, Mathematical models, Mathematical prediction, Learning curves, Coefficients, Random variables, Parametric analysis, Theses (U)
IDENTIFIERS: Random coefficients models (U)

Previous studies into aircraft airframe acquisition costs have either not dealt with the learning phenomenon or have assumed that the learning curve slope is the same for all types of aircraft. However, some results have indicated that this is not truly the case. The random coefficients model, as applied in this study, provides a framework in which the slopes can differ by estimating their values based on other characteristics of the aircraft. This method thus has the advantage over other techniques of being able to predict the actual learning curve slope more accurately before any production takes place, and thus yield more reliable cost estimates. For that reason, it represents a significant advance in the state of the art of parametric airframe cost estimation. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A078 279 5/3 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Pricing for U.S. Army Technical Assistance Field Teams (TAFT). (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 55P Brown,Terry E. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Military assistance, *Finance, *Cost estimates, Foreign, Policies, Accounting, Teams(Personnel), Army personnel, Deployment, Overseas, Military dependents, Relocation, Field army, Theses (U)
IDENTIFIERS: *Pricing, Foreign military sales, TAFT(Technical Assistance Field Teams) (U)

The Technical Assistance Field Team (TAFT) concept is a relatively new method of providing military services to foreign countries under the Foreign Military Sales (FMS) program. Because of this newness, the policies and procedures governing the deployment of an U.S. Army TAFT are still being formulated and revised. One such area is pricing. This document provides a brief overview of FMS, including the purposes, authority, and responsibilities for its administration. The authorized usage and pricing involved in the deployment of an U.S. Army TAFT are discussed. This study attempts to consolidate and/or provide methods that may be used to price TAFT deployments. Because of the lack of sufficient data in several areas, the pricing methods discussed are conservatively biased. Recommendations are prescribed to refine further the price estimation methods discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A078 272 5/1 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

The Cost of Money on Assets Under Construction and Defense Contracting. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 74P Pittman,Glenn James :

UNCLASSIFIED REPORT

DESCRIPTORS: *Accounting, Cost analysis, Construction, Contracts, Costs, Department of Defense, Allocations, Theses (U)
IDENTIFIERS: Capitalization (U)

On May 5, 1978, the Cost Accounting Standards Board issued a proposal containing two possible alternatives for the allocation of the cost of money associated with assets under construction. Alternative A would require capitalization while Alternative B would modify a current standard to include the interest on construction. This thesis examines the nature of the commitment by a sample of government contractors to construction-in-progress and the interest cost associated with this level of investment. It then examines and evaluates the cost streams associated with each of the alternatives and a hypothetical asset under construction account. It was determined that by using present value, and at reasonable discount rates, the differences between the two alternatives could be considered immaterial. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A078 232 5/1 15/3

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

The Effect of Price Competition on Weapon System Acquisition Costs. (U)

DESCRIPTIVE NOTE: Final rept..
SEP 79 252P Daly ,George G. :Gates , Howard P. :Schuttinga,James A. :
REPT. NO. IDA-P-1435
CONTRACT: MDA903-79-C-0202
MONITOR: IDA/HQ,SBIE 79-21585,AD-E300 109

UNCLASSIFIED REPORT

DESCRIPTORS: *Military procurement, *Weapon systems, *Cost analysis, *Costs, Acquisition, Policies, Life cycle costs, Savings, Cost estimates, Contract administration, Technology transfer (U)
IDENTIFIERS: *Prices, *Competition, LPN-DARPA-T-154 (U)

This paper examines the impact of price competition on weapon systems acquisition. The multidimensional impact of competition on price and non-price aspects of weapon system production and acquisition are discussed. The importance of cost quantity relationships for measuring the effect of competition on price and the theoretical basis of those relationships are reviewed. The problems of and the techniques for accomplishing the transfer of technology associated with competition for production contracts are briefly outlined. Previous estimates of savings due to competition are reviewed, and their underlying methodology criticized. It is proposed that the introduction of competition be analyzed as an investment. The eventual reductions in procurement costs must be balanced against the initial costs of introducing competition and establishing a second source. The opportunity cost of government funds should be incorporated by calculating the net discounted present value or the rate of return of introducing competition for the procurement of a particular system. Finally, conclusions and policy recommendations are presented, based upon both empirical analyses and qualitative findings from interviews. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A078 155 14/1 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Costs and Decision-Making Processes in Non-Profit, General-Purpose Hospitals. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 79 169P Todd,Hamilton Smith , Jr. ;
Rice,Stephen Charles ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Management planning and control, Decision making, Control, Costs, Hospitals, Physicians, Management, Health surveys, Theses (U)
IDENTIFIERS: Cost control, General-purpose hospitals (U)

A literature survey was conducted on the relationship between hospital costs and decision-making processes. Costs are seen as consequences of decisions made by four groups within the hospital setting: (1) board of trustees; (2) administrator; (3) medical director; and (4) medical staff. These sets of organizational players are studied in terms of functions and responsibilities, compatibility in a professional bureaucracy, powers and influences, and goals. Attempts are made to discern what kinds of decisions are made by each group and what impact those decisions will have on costs. The authors conclude that cost control mechanisms can focus on either resource availability or resource utilization. The former is seen as multi-influenced while the latter is essentially controlled by physicians. An argument is made for the need to internalize cost information into the physician's clinical judgements. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A078 053 14/1

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

Predictive Operations and Maintenance Cost Model. Volume II. (U)

DESCRIPTIVE NOTE: Final rept. Jul 78-Jun 79,
AUG 79 377P Feltus,Erasmus E. :
CONTRACT: F33615-77-C-1105
PROJ: 2003
TASK: 09
MONITOR: AFAL TR-79-1120-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A078 052 and AD-A059 164, AD-A059 516 and AD-A059 354.
DESCRIPTORS: *Cost estimates, *Cost models, Statistical analysis, Regression analysis, Life cycle costs, Air Force equipment, Avionics, Data bases (U)
IDENTIFIERS: LRU(Line Replaceable Units), WUAFAL20030912, PE62204F (U)

This report describes a model which can be used to estimate the operations and support costs of avionics line replaceable units (LRU's). The model relates available LRU design parameters to operations and support costs using various cost estimating relationships. This document is Volume II of the final report which describes the development of the revised version of the Westinghouse Avionics Laboratory Predictive Operations and Support (ALPOS) cost model developed in 1977 -1978 and described in AFAL-TR-78-49. This revised version, known as ALPOS II,has a more expansive data base than ALPOS and includes digital avionics s, tems not included in ALPOS. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A078 052 14/1 12/1 5/1

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

Predictive Operations and Maintenance Cost Model. Volume I. (U)

DESCRIPTIVE NOTE: Final rept. Jul 78-Jun 79,
AUG 79 282P Wienecke,E. Louis , III ;
Feltus,Erasmus E. ;
CONTRACT: F33615-77-C-1105
PROJ: 2003
TASK: '09 '
MONITOR: AFAL TR-79-1120-VOL-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A078 053 and AD-A059 164, AD-A059 516 and AD-A059 354.
DESCRIPTORS: *Cost estimates, *Cost models, *Predictions, *Statistical analysis, Life cycle costs, Logistics support, Avionics, Operation, Maintenance, Experimental design, Data acquisition, Data bases, Regression analysis, Validation, Replacement (U)
IDENTIFIERS: WUAFAL20030912, PE62204F (U)

This report describes a model which can be used to estimate the operations and support costs of avionics line replaceable units (LRU's). The model relates available LRU design parameters to operations and support costs using various cost estimating relationships. This document is Volume I of the final report which describes the development of the revised version of the Westinghouse Avionics Laboratory Predictive Operations and Support (ALPOS) cost model developed in 1977-1978 and described in AFAL-TR-78-49. This revised version, known as ALPOS II, has more expansive data base than ALPOS and includes digital avionics systems not included in ALPOS. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A078 004 15/5 14/1

SYSTEMS CONSULTANTS INC WASHINGTON D C

Manufacturing Technology Cost Drivers Study of Aircraft Rework, Overhaul and Remanufacture Processes. Volume I. (U)

DESCRIPTIVE NOTE: Final rept. 19 May 78-31 Jan 79,
JAN 79 121P Harkins,William D. :
CONTRACT: N00244-78-C-0288

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval equipment, *Maintenance, *Cost analysis, Naval aircraft, Guided missiles, Electronic equipment, Production, Machining, Naval shore facilities (U)
IDENTIFIERS: *Depot level maintenance, Overhaul, Remanufacture, Cost drivers (U)

This study covered the aircraft rework, overhaul and remanufacture processes at the six Naval Air Rework Facilities (NAVAIREWORKFACs) and identified those processes which were most costly in the performance of organic naval air depot level maintenance. Concerned with the logistical aspects of Naval Weapons Systems and the need to increase productivity within the Naval Air Industrial Community, the study focused on application opportunities related to manufacturing processes, methods, techniques and equipment associated with manufacturing technology functional categories. For the items being reworked, those elemental or sub-elemental operations which were most costly (viz, cost drivers) were identified, ranked by aggregate cost for all NAVAIRREWORKFACs, assembled within a data base, and presented in the Final Report. Conclusions and recommendations resulting from the study are presented. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A077 943 5/9 19/5 16/1

ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ALEXANDRIA VA

A Methodology and Analysis for Cost-Effective Training in the AN/TSQ-73 Missile Minder. (U)

DESCRIPTIVE NOTE: Research memo.,
FEB 78 63P Jorgensen,Charles C. ;
REPT. NO. ARI-RM-77-26
PROJ: 2Q763743A771

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Army training, *Training devices, *Air defense, *Fire control systems, *Guided missile personnel, Operational effectiveness, Cost effectiveness, Methodology, Policies, Decision making, Surface to air missiles (U)
IDENTIFIERS: AN/TSQ-73, Missile minders, PE63743A, AS771 (U)

The methodology presented in this paper visualizes the problem of cost effectiveness in the following ways: First, it assumes an average level training developer who may or may not be aware of the latest psychological training options available to him and who may or may not be aware of all current managerial policies that affect his choices. Second, it assumes that TRADOC and the training manager have policies which they expect to see reflected in cost and operational effectiveness analysis (COEA) decisions. Third, the COEA analyst may or may not have access to a complete Train Up Study (TUS) from which to refine his decisions. Fourth, he is probably under time pressure to supply alternate programs as training input for one component of a complete COEA analysis. Fifth, he has a limited number of support personnel. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A077 725 5/1 13/8 9/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

An Investigation of Changes in Direct Labor Requirements Resulting from Changes in Avionics Producion Rate. (U)

DESCRIPTIVE NOTE: Master's thesis,
JUN 79 172P Stevens ,David Y. ;
Thomerson,Jimmie ;
REPT. NO. AFIT-LSSR-11-79A

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Production rate, Industrial production, Resource management, Learning curves, Labor, Costs, Mathematical prediction, Computerized simulation, Hypotheses, Mathematical models, Linear regression analyses, Statistical tests, Avionics, Jet fighters, Military procurement, Theses (U)
IDENTIFIERS: Prices (U)

This research investigated the effects on direct labor requirements by exogenous changes in production rate in the ARC 164 radio and the Computer Signal Data Converter avionics production programs. The standard learning curve model was modified by adding a production rate variable using test data from the F-4, F-102, and KC-135 programs. Within the modified model, the production rate showed a significant and inverse relationship to direct labor requirements. Moreover, this modified model was more accurate in predicting direct labor requirements than was the standard learning curve model. This research extended the modified model to avionics, validated it there, and confirmed its superior predictive ability, both statistically and subjectively. Therefore, this model is recommended for use as a predictor of direct labor requirements in ongoing avionics production programs. The program was modified to include options for predictive ability tests and for projection sensitivity matrices. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A077 475 1/3 14/2 14/1

BOEING AEROSPACE CO SEATTLE WA

New Remotely Piloted Vehicle Launch and Recovery Concepts. Volume I. Analysis, Preliminary Design and Performance/Cost Trade Studies. (U)

DESCRIPTIVE NOTE: Final rept. Mar 78-Mar 79, JUN 79 260P Baumgartner ,Steven J. ; Brister,James G. ;Rajpaul, Vinod K. ;Yurczyk, Roger F. ;
CONTRACT: F33615-78-C-3404
PROJ: 2402
TASK: 01
MONITOR: AFFDL TR-79-3069-VOL-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A076 611.
DESCRIPTORS: *Remotely piloted vehicles, *Launching, *Recovery, *Air cushion vehicles, Systems analysis, Experimental design, Dynamic tests, Performance tests, Cost analysis, Trade off analyses, Bags, Computer programs, Landing, Steady state, Acquisition, Survival(General), Requirements, Weather, Flight testing, Maintainability, Reliability, Vulnerability, Life cycle costs, Simulation, Ground support equipment (U)
IDENTIFIERS: Dynamic analysis, Air bags, WUAFFDL24020108, PE62201F (U)

Dynamic analysis, preliminary design, and performance/cost trade studies of air bag skid and air cushion concepts for launch and recovery of Boeing and Rockwell advanced RPV concepts have been conducted. Dynamic analysis was performed using the six degree-of-freedom computer program EASY. Dynamic simulations included perturbations to steady state flight, landing, and takeoff simulations. Launch and recovery concepts investigated were air bag skid system, air cushion recovery systems, integrated air cushion system, and air cushion launch platform. Performance/cost trade study factors investigated were complexity, fuel requirements, adverse weather capability, ground equipment and facility requirements, (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A077 373 1/3

UNITED TECHNOLOGIES CORP STRATFORD CT SIKORSKY AIRCRAFT DIV

Advanced Structures Concepts R and M/Cost Assessments. (U)

DESCRIPTIVE NOTE: Final rept. Oct 77-Feb 79, SEP 79 237P Cook ,Thomas N. ;Kay,Bruce F. ;
REPT. NO. SER-510016
CONTRACT: DAAJ02-77-C-0061
PROJ: 1L262209AH76
TASK: 00
MONITOR: USARTL TR-79-16

UNCLASSIFIED REPORT

DESCRIPTORS: *Helicopters, *Airframes, *Composite structures, Fuselages, Composite materials, Bonded joints, Reliability, Aircraft maintenance, Fiber reinforced composites, Sandwich construction, Honeycomb cores, Repair, Damage, Impact, Life cycle costs (U)
IDENTIFIERS: PE62209A, A5H76, WU215 (U)

Recent programs have investigated various aspects of the design and manufacture of advanced composite airframe structures for helicopters. Evaluation of the reliability and maintainability (R and M) and operating cost characteristics of the evolving design concepts has been limited, however. The objective of this program has been to assess the overall potential of advanced composite structures from the standpoint of R and M and life-cycle cost. A survey was made of in-service experience with helicopter airframe structures, concentrating particularly on bonded structures and composite materials. The surveys included visits to Army helicopter depots where typical types of damage were examined and discussed. A review was also made of published data on composites in use with fixed-wing aircraft. It was established that with the exception of some secondary structure, experience with composites in helicopter airframe applications is very limited, and that quantitative reliability factors cannot yet be established. However, it was concluded that the majority of failures with advanced composites will occur from external causes. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A077 331 13/10 14/1 5/1

VIRGINIA POLYTECHNIC INST AND STATE UNIV BLACKSBURG DEPT OF AEROSPACE AND OCEAN ENGINEERING

Analysis of the Cost of Variable Workloads on Shipbuilding. (U)

DESCRIPTIVE NOTE: Final rept. 1 Apr 78-1 Oct 79,
NOV 79 250P Magnuson ,Allen H. ;Terry. Robert W. ;
REPT. NO. VPI-AERO-103
CONTRACT: N00014-78-C-0411

UNCLASSIFIED REPORT

DESCRIPTORS: *Shipbuilding, *Cost analysis, *Management planning and control, Job analysis, Allocations, Transfer functions, Variables, Operations research, Value engineering, Plannin (U)

The effect of shipyard workload variation on the cost of building ships has been analyzed. The results of four efforts are presented. The first major effort consists of an analysis of the effect of work density (i.e. worker crowding) on shipbuilding productivity and cost. The results show that an optimum least cost construction time and work-force level exist as a result of a tradeoff between work density effects and fixed costs. The second effort was an attempt to identify causes of shipyard productivity variation based on interviews with shipyard supervisory personnel. The third effort involved development of a framework for estimating transfer functions to describe how workload variation affects cost. This work is to be based on historical producton and cost data. A description of adapting the Box-Jenkins forecasting methodology to the problem is presented. The fourth effort concerns development of a shipyard planning system to minimize cost of adjusting to workload variations. A review of current approaches to multi-resource/multi-project planning models is given along with a proposed decompostion of the planning problem into strategic and tactical components. The strategic or long-range planning deals with aggregate issues such as organizational goals, long-range manpower planning and facilities expansion. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A077 264 5/9

GENERAL ACCOUNTING OFFICE WASHINGTON DC FEDERAL PERSONNEL AND COMPENSATION DIV

DOD 'Total Force Management' -- Fact or Rhetoric. (U)

JAN 79 36P
REPT. NO. GAO/FPCD-78-82

UNCLASSIFIED REPORT

Availability: U.S. General Accounting Office, Distribution Section, Room 1518, 441 G St. NW, Washington, DC 20548 (No copies furnished by DTIC).
SUPPLEMENTARY NOTE: Report to the Congress.
DESCRIPTORS: *Personnel management, *Manpower, Costs, Guidance, Cost effectiveness, Department of Defense, Air Force, Management information systems (U)
IDENTIFIERS: Force management, Military costs (U)

Rising manpower costs and increasing competition for funds underscore the importance of good management within the Department of Defense (DOD). Congressional interest in reducing military costs without sacrificing readiness further illustrates the need for competent management of the DOD work force. The guidance that is available does not acknowledge constraints and is vague and incomplete, generally addressing only segments of the total manpower resources. Further, the guidance requires no trade-off analyses to justify the type of manpower requested and provides little information on cost considerations other than directing the services to seek the least costly manpower program. Consequently, each service has developed its own manpower systems with its own policies and sets of logic. However, the Air Force is the only service with a total force management system; the Army and Navy have only recently started to develop one. When the latter two have such a system, DOD will have made a major step toward achieving effective total force management. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A077 166 15/5 14/1

ARMY ENGINEER STUDIES CENTER WASHINGTON DC

US Army, Air Force, and Navy RPMA Consolidation in Panama. A Cost-Benefit Analysis. Volume II. (U)

OCT 79 264P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A077 165.
DESCRIPTORS: *Military facilities, *Cost analysis, Joint military activities, Management planning and control, Panama, Savings, Army Corps of Engineers, Air Force, Army, Navy (U)

This annex and its appendixes provide background information about the Air Force, Army, and Navy and their current method of real property maintenance activity (RPMA) operation (CMO). The annex provides a geographical/physical perspective of the installations under consideration. Appendixes C-1 and C-2 discuss the services' current operations and workload and contain a discussion of the installation support provided. Appendix C-3 presents an overview of the current RPMA reporting procedures and the necessary considerations for consolidation actions. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A077 165 15/5 12/1

ARMY ENGINEER STUDIES CENTER WASHINGTON DC

US Army, Air Force, and Navy RPMA Consolidation in Panama. A Cost-Benefit Analysis. Volume I. (U)

DESCRIPTIVE NOTE: Final rept. Jan-Sep 79.
SEP 79 118P Cooper, Gerald E. ;Flowers, George A. ;Underwood, Elton M. ;Halayko, Robert H. ;Grieco, Ralph ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A077 166.
DESCRIPTORS: *Military facilities, *Cost analysis, Maintenance management, Panama, Feasibility studies, Savings, Economics, Cost effectiveness (U)
IDENTIFIERS: RPMA(Real Property Maintenance Activities) (U)

This OSD-directed study determined the feasibility of consolidating real property maintenance activities (RPMA) for all services in the Panama Canal Zone. It considered feasibility with regard to geographic, functional, and economic factors. It applied the continuing objective of DOD policy and guidance which is to ensure that RPMA at military installations is consolidated where such action is cost effective and does not result in mission impairment. The study showed several approaches to consolidation to be feasible though hardly equal. One alternative, a single manager concept, was found superior to the others. However, it was recommended for implementation only if tied to a longer-term goal of consolidating and standardizing all Base Operating Support (BOS) for the three services. Because of delays in working out Treaty details and Treaty-induced turbulence in general, implementation of the RPMA phase of BOS consolidation should be postponed for from 1 to 2 years. This evolutionary approach to all BOS will minimize short-term transition difficulties, maximize long-term savings to DOD in Panama, and set a standard for much wider application later. (Author (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A077 064 15/5 12/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING

Application of a Bayesian Approach to Updating Airframe CERs. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 179P Dietrich,Walter D. ;
REPT. NO. AFIT/GSM/SM/79D-30

UNCLASSIFIED REPORT

DESCRIPTORS: *Airframes, *Cost estimates, *Mathematical prediction, Procurement, Data bases, Bayes theorem, Regression analysis, Theses (U)
IDENTIFIERS: *Cost estimating relationships (U)

This study investigates a Bayesian approach for developing a parametric equation which will estimate the recurring cost of the next lot/unit of an airframe program. Recurring costs are predicted because definitionally these costs are expected to reflect the cost for a follow-on production unit. Although the data base used for this study consisted of production cost information, the Bayesian approach may be useful for providing a parametric estimate of production cost using recurring costs from a prototype effort. However, until definitional problems associated with separating engineering and tooling costs into recurring and nonrecurring categories are resolved, predictions of production or next unit engineering and tooling costs will be marginal. Because of the definitional problem, total cost, (nonrecurring and recurring) was used in this study to develop Bayesian updated CERs for the engineering and tooling categories. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A076 981 14/1 17/7

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING

A Study of Two Avionics Life Cycle Cost Models and Their Applicability in the Communications-Electronics-Meteorological Environment. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 57P Drobot ,Nicholas J. ;
Johnson,Martin H. ;
REPT. NO. AFIT/GSM/SM/79S-5

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost models, *TACAN, *Life cycle costs, Communication equipment, Avionics, Logistics support, Navigational aids, Military procurement, Flow charting, Theses (U)

This study determines the applicability of Life Cycle Cost (LCC)/Logistic Support Cost (LSC) models in the CEM environment. The scope of this study addresses two of the models identified (LSC, PRICE) with respect to three Air Force TACAN systems. A methodology is developed to evaluate each model based on the five desirable model characteristics: availability of input data, validity, sensitivity, completeness, and documentation. The results presented are also framed within the above model characteristics. The most important model characteristic, validity, is accessed by comparison with an AFCS cost study of NAVAIDs equipment. Based on the methodology, the results indicate that both models are applicable in the present and future CEM environment. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A076 924 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

A Cost Model for Air Force Institute of Technology Programs. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 170P Cox,John R. , Jr. :
Hotchaveg,Kenneth J. :
REPT. NO. AFIT-LSSR-18-79B

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost models, *Cost analysis, Forecasting, Education, Schools, Air Force, Accumulation, Theses (U)

This research developed a cost model to facilitate the accumulation of the full costs of individual AFIT education programs with fiscal year 1977 and 1978 data used to illustrate the model. Cost objectives, within the AFIT schools and programs, were identified for assignment of costs. Elements of cost applicable to the cost objectives were identified, defined, and categorized as direct, indirect, and other (student pay and allowances). The indirect costs of education were further subcategorized as AFIT indirect, base support, and command overhead. An additional cost category of unfunded retirement was included as a separate cost element. Using these cost categories, the cost per student week for each cost objective was determined. The modular composition of the cost model provides a high degree of utility, permitting the user to delete cost components if less than a full cost profile is desired. The model permits comparison and analysis of cost components, either in total cost or in cost per student week. Additionally, the model provides the basis for cost analysis as expense data become available in future years. Finally, the model provides a framework useful for analyzing costs of other educational activities. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A076 833 5/3 22/4

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Maintenance Surcharge for Range Use at the Pacific Missile Test Center. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 107P Corbett,James T. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Launching sites, *Maintenance management, *Costs, Maintenance, Ranges(Facilities), Income, Finance, Communication equipment, Telemeter systems, Command and control systems, Search radar, Radar tracking, Allocations, Theses (U)
IDENTIFIERS: Pacific Missile Test Center (U)

The Pacific Missile Test Center, PMTC, is utilized by various DOD components to test and evaluate weapons systems. Range facilities include tracking and surveillance radar, telemetry, communication, recording and command/control/destruct instrumentation systems. PMTC is a component of DOD's Major Range and Test Facility Base and is subject to operating under a Uniform Funding Policy. This thesis investigates the proposal made by PMTC's Engineering and Design Department that a surcharge system be developed to levy instrumentation maintenance costs on range users. The DOD organization for RDT&E and Weapon Systems Acquisition is discussed in brief. This is followed by a detailed examination of the Uniform Funding Policy and Industrial Maintenance Principles. The PMTC Financial Management System is presented and surcharge implementation problems are identified. A conclusion is made to effectuate a surcharge: and allocation and implementation procedures are introduced. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A076 630 5/1 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

The Impact of Cost Accounting Standard Number 409 on the Defense Industry. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 152P Kline,Jack C. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Accounting, *Costs, Contracts, Standards, Profits, Government procurement, Industrial equipment, Allocations, Estimates, Records, Finance, Contract administration, Management planning and control, Military procurement, Regulations, Theses (U)
IDENTIFIERS: *Depreciation, Defense industries, Service life (U)

The purpose of this thesis is two-fold. First, it seeks to develop a defense industry perspective on depreciation in general and Cost Accounting Standard No. 409 in particular. The historical development of the Standard and the issues arising from it provide a framework for evaluation. Second, it evaluates these issues in present terms with accurate data reflecting the opinion and experience of industry representatives. Data were gathered by the use of a questionnaire. Results show that the Standard had a fairly modest impact on the defense industry. Recommendations are made concerning the issuance of Cost Accounting Standards and areas for future research. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A076 583 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

A Cost Accounting Standard on Capacity Related Costs: A Desirability and Feasibility Analysis. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 96P Kennedy,Harvey L. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Accounting, *Costs, Standards, Feasibility studies, History, Contracts, Requirements, Theses (U)
IDENTIFIERS: Contract pricing, Pricing (U)

The purpose of this thesis was to examine the subjects of capacity and capacity-related costs from both a theoretical and pragmatic standpoint and to determine the desirability and feasibility of a formal cost accounting standard on capacity-related costs. The writer attempted to simulate, in an individual effort, the staff work of the Cost Accounting Standards Board (CASB) through a literature survey and an analysis of the CASB issues paper on capacity-related costs. The thesis concluded that there were potential benefits to the government if a standard could be developed. However, a standard that could meet the objectives of the Cost Accounting Standards Board did not appear feasible, primarily because of difficulties in the accurate measurement of various capacity levels and because such a standard could lead to unduly complex accounting procedures and excessive administrative costs. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A076 373 1/3 11/4

BUDD CO FORT WASHINGTON PA TECHNICAL CENTER

Feasibility Study of a Cost-Effective Composite Materials Maximum Performance Escape System Seat. (U)

DESCRIPTIVE NOTE: Final rept. May-Sep 78.
SEP 78 69P
CONTRACT: N62269-78-C-0112
PROJ: F41400
TASK: 'WF41400000
MONITOR: NADC 79011-60

UNCLASSIFIED REPORT

DESCRIPTORS: *Ejection seats, *Composite materials, Graphite, Synthetic fibers, High strength, Lightweight, Stiffness, Aluminum, Comparison, Cost effectiveness, Naval aircraft, Escape systems, Molds(Forms), Manufacturing (U)
IDENTIFIERS: PE62241N, WUZA604 (U)

Ejection seats used in military aircraft are traditionally fabricated with sheet metal, formed or riveted into a bucket structure. Using conventional metal materials has several drawbacks, namely, high initial production costs required by complexity of manufacture, relatively short service life due to environmental exposure and high maintenance costs. Under the U.S. Navy's continuing search for improved escape systems, it is required to explore the potential of using advanced 'state-of-the-art' materials to reduce or eliminate these drawbacks. 'Composite' materials and/or a combination of composite and aluminum are explored in this study and appear feasible. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A076 218 17/2 5/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

Implementing Usage-Sensitive Charges for AUTODIN. Volume II. AUTODIN Technical Appendices. (U)

DESCRIPTIVE NOTE: Final rept..
NOV 78 82P Bell ,James P. :Fry ,John N. :Moody,Dale L. :
REPT. NO. IDA-S-504-VOL-2
CONTRACT: DAHC15-73-C-0200
MONITOR: IDA/HQ.SBIE 79-21639.AD-E500 099

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A076 217.
DESCRIPTORS: *Communications traffic, *Data transmission systems, *Costs, Utilization, Rates, Allocations, Computerized simulation, Communications networks, Department of Defense, Digital systems, Telephone systems, Accounting, Management planning and control (U)
IDENTIFIERS: AUTODIN (U)

A technique is developed for accumulating and processing data on AUTODIN digital communication usage, applying usage rates and computing user charges for billing purposes. The program was activated on Defense Commercial Communications Office computers and tested using a special 1978 sample of actual system traffic and several alternate rate structures. Resulting cost distributions are shown and discussed. The problems of system implementation and interpretation of data are discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A076 217 17/2 5/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

Implementing Usage-Sensitive Charges for AUTODIN. Volume I. Basic Study. (U)

DESCRIPTIVE NOTE: Final rept.,
NOV 78 67P Bell ,James P. ;Fry ,John N. ;Moody,Dale L. ;
REPT. NO. IDA-S-504-VOL-1
CONTRACT: DAHC15-73-C-0200
MONITOR: IDA/HQ,SBIE 78-20707,AD-E500 098

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A076 218.
DESCRIPTORS: *Communications traffic, *Data transmission systems, *Costs, Utilization, Rates, Allocations, Computerized simulation, Communications networks, Department of Defense, Digital systems, Telephone systems, Accounting, Management planning and control (U)
IDENTIFIERS: AUTODIN, Store and forward communications, Digital communications (U)

A technique is developed for accumulating and processing data on AUTODIN digital communication usage, applying usage rates and computing user charges for billing purposes. The program was activated on Defense Commercial Communications Office computers and tested using a special 1978 sample of actual system traffic and several alternate rate structures. Resulting cost distributions are shown and discussed. The problems of system implementation and interpretation of data are discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A076 163 17/2.1 1/3 14/2 14/1 9/2

AIR FORCE AVIONICS LAB WRIGHT-PATTERSON AFB OH

SATCOM 'EHF' Airborne Terminal Availability to Cost Analysis Demonstration. (U)

DESCRIPTIVE NOTE: Technical rept. Jul 78-Apr 79.
JUL 79 151P Bartman,Herbert M. :
REPT. NO. AFAL-TR-79-1105
PROJ: 1227
TASK: 03

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Communication satellite terminals, *Avionics, *Reliability(Electronics), *Cost analysis, Radio transmitters, Radio receivers, Extremely high frequency, Ka band, Jet transport planes, Systems analysis, Computer programs, Operational readiness, Missions, Systems engineering, Systems management, Maintainability, Trade off analyses, Malfunctions, Mathematical prediction, Tables(Data) (U)
IDENTIFIERS: Depend computer program, TASA(Tabular System Analysis), C-135 aircraft, WUAFAL12270313, PE63431F (U)

A practical approach (TASA/DEPEND Program) for analyzing system 'ilities' was demonstrated based on results reported in Technical Reports AFAL-TR-78-45 and AFAL-TR-78-135. This approach provides an analysis tool for studying the impact of changes in mission use on reliability, availability and dependability so that mission plans can be optimized with respect to achieving design objectives as related to cost. An important feature of this analysis approach is that the impact of malfunctions and failures on system availability and cost are separately assessed. This makes it possible to directly relate the contributions of hardware module reliability and maintainability to functional block performance. Such studies provide a means for concentrating reliability and maintainability resources in areas that will provide the maximum system improvement at the minimum cost. Also, a relational basis for trade-offs between reliability and maintainability requirements is obtained in relationship to cost. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A075 587 5/1 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

Cooperative Logistics Supply Support Arrangement Pricing Relationships Between Programmed and Nonprogrammed Requisitions. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 106P Breed ,John A. ;Winn, James S. ;
REPT. NO. AFIT-LSSR-8-79B

UNCLASSIFIED REPORT

DESCRIPTORS: *Military procurement, *Logistics support, *Cost analysis, *Contract administration, Military supplies, Spare parts, Government(Foreign), Regulations, Data bases, Statistical analysis, Analysis of variance, Hypotheses, Logistics management, Operational effectiveness, Theses (U)
IDENTIFIERS: Foreign military sales (U)

The United States Government participates with friendly countries in Foreign Military Sales (FMS) arrangements to enhance its objectives of peace and security. The Department of Defense usually will complete FMS contracts only after insuring that the foreign customer has adequately considered logistical support for the weapon systems sold. Supply Support Arrangements (SSA) are negotiated to provide this follow-on logistical support to countries who invest and participate in the U.S. defense logistics system. Under this arrangement, foreign governments are required to put up advance equity funds equal to a stated portion of the inventory items to be purchased for their needs. This causes items in the SSA to become programmed for foreign customers and should result in lower prices based on advanced procurement, shipments by the Item Manager below the control level, and exclusion of replacement pricing for programmed requisitions. The purpose of this thesis was to determine if a significant difference exists in final billing prices for programmed versus nonprogrammed Cooperative Logistics Supply Support Arrangement (CLSSA) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A075 586 14/1 9/3 14/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

An Operating and Support Cost Model for Avionics Automatic Test Equipment. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 180P Guerra ,Joel A. ;Lesko , Andrew J. ;Pereira,Jose G. ;
REPT. NO. AFIT-LSSR-21-79B

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost models, *Avionics, Aircraft equipment, Life cycle costs, Test equipment, Automatic, Ground support equipment, Weapon systems, Logistics support, Maintenance, Training, Mathematical models, Computer programs, Theses (U)

One of the fastest growing elements of weapon system support equipment which relates directly to Operating and Support (O and S) costs is Automatic Test Equipment (ATE). The importance of ATE has expanded to such a degree that it requires additional management attention. The importance is exemplified by the $600 million projected development and acquisition costs of ATE for the F-16. This amount of cost qualifies the F-16 ATE for major program status. This thesis documents the development of a model to estimate and measure O and S costs for Avionics ATE. The model will be an important addition to the tools used in ATE Life Cycle Costing (LCC) techniques. It is envisioned primarily as an evaluation tool to be used in ATE source selection, but may also be useful in various design trade-off studies. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A075 582 5/1 14/1 5/9

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

Development of Improved Criteria for Determining the Need for Pricing Staff Action. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 79 106P Martinez ,Margaret A. ;
McConnell,Thomas J. ;
REPT. NO. AFIT-LSSR-1-79B

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force procurement, *Contract administration, *Cost analysis, Contract proposals, Specialists, Skills, Money, Planning programming budgeting, Decision making, Resource management, Job analysis, Theses (U)

The objective of this research was to determine whether improvement could be made in the current method of determining the need for pricing staff action. Currently, a dollar threshold is the sole criterion used in Air Force contracting and pricing offices to determine whether the price or cost analysis of a contractor's proposal should be performed by the pricing office or by the contracting office. While this sole criterion is convenient and easy to apply, it was not considered to be an effective decision rule. Interviews conducted with pricing experts in both Air Force Systems Command and Air Force Logistics Command revealed that the dollar threshold did not, in most cases, identify those contracts requiring the special expertise of the pricing offices. The research indicated that the use of a decision rule which considered the factors of type of contract, nature of buy, contracting officer skill, complexity, and contractor, in addition to dollar value would result in a more effective use of pricing resources. (Author) (U)

AD-A075 582 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A075 530 13/10 14/1 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Marginal Cost Factors for High Performance Ships and their Impact on Subsystem Design. (U)

DESCRIPTIVE NOTE: Master's thesis.
MAY 78 194P Turner,Douglas Kearney :

UNCLASSIFIED REPORT

DESCRIPTORS: *Hydrofoil craft, *Surface effect ships, *Cost analysis, Naval architecture, Systems engineering, Computerized simulation, Life cycle costs, Weighting functions, Naval procurement, Weapon systems, Ship defense systems, Sonar equipment, Marine surface propulsion, Cost models, Planning programming budgeting, Theses (U)

Investigation reveals that major weapon, propulsion, and sensor subsystems, selected for use aboard Naval vessels, are designed many years prior to the development of a ship. The tendency, by Ship Acquisition Managers, to select off-the-shelf equipment is the result of various political pressures and a requirement to minimize the technical risk of the total ship system. Subsystem Designers develop their product without regard for the subsystem's impact on possible future ship designs. The physical characteristics (i.e. weight, required manning, electrical power, and space required) of a subsystem are not controlled and the growth of these parameters is a major factor in the escalating cost of Naval ships. To assist both the Ship and the Subsystem Acquisition Managers/Designers in controlling costs, Marginal Cost Factors are proposed. Previous work has demonstrated the validity of the concept of Marginal Factors to predict the ship-growth costs due to the impact of subsystems on conventional displacement ships. This thesis builds upon this work by using two ship synthesis computer models to generate Marginal Weight Factors for two high performance ship types of recent interest to the U. S. Navy - Hydrofoils and Suface Effect Ships. (Author) (U)

AD-A075 530 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A075 511 13/13 5/1 15/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL

Real Estate Cost Estimating Techniques for PL 91-646 Relocation Costs. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 79 191P Poskus ,U. R. ;Stamas ,G. D. ;Stawarz,S. P. ;
REPT. NO. CERL-TR-P-103
CONTRACT: IAO-RE-77-1, IAO-RE-77-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Housing(Dwellings), *Cost estimates, *Army Corps of Engineers, Relocation, Least squares method, Computer programs, Military engineering, Public relations, Construction, Benefits (U)
IDENTIFIERS: Real estate (U)

This report documents the development of a predicting model which would better estimate the amount of money required by Districts to compensate individuals relocated from their residences, businesses, or farms as a result of U. S. Army Corps of Engineers construction. The predictions are the result of applying the least squares method to previous District and state payment data. Three different approaches for developing the model were attempted. The approach which used Docket Sheet data broken out by Fiscal Years 72 through 76 was selected as having the highest probability for success. Using the information from these Docket Sheets, average total payments were computed by state and by District, and average values were found for each of 15 payment catagories. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A075 500 1/3

ROCKWELL INTERNATIONAL EL SEGUNDO CA NORTH AMERICAN AIRCRAFT DIV

Aircraft Transparency Failure and Logistical Cost Analysis - Supplemental Study. (U)

DESCRIPTIVE NOTE: Final rept. Feb-Jun 79,
JUN 79 252P Brown ,S. S. ;
REPT. NO. NA-79-237
CONTRACT: F03615-77-C-3060
PROJ: 240
TASK: 03
MONITOR: AFFDL TR-79-3083

UNCLASSIFIED REPORT

DESCRIPTORS: *Transparent panels, *Aircraft, Windshields, Windows, Aircraft panels, Failure(Mechanics), Aircraft maintenance, Reliability, Logistics support, Life cycle costs, Jet fighters, Helicopters, Fittings, Supports, Protective coatings, Lubrication, Windshield wipers (U)
IDENTIFIERS: F-4 aircraft, A-7D aircraft, C-130 aircraft, CH-53 aircraft, CH-3 aircraft, UH-1 aircraft, WUAFFDL24020302, PE62201F (U)

Concern for increasing costs in maintenance of transparency systems has prompted the Air Force Flight Dynamics Laboratory to sponsor this study contract. The object of this study is to identify the high-cost, high maintenance transparency components; identify cause of failures; and recommend corrective programs to reduce cost of ownership to the Air Force Logistics Command. The study involved the review of 20 selected aircraft in current inventory to establish an extensive data base relating transparency maintenance activity and associated logistical support costs. An important adjunct to this study was to research design characteristics, perform a failure analysis, and identify associated logistical support cost for each study aircraft. By using a selective process of correlating the transparency failure modes and maintenance costs with the relative stature of aircraft in current inventory, corrective programs were established and verified by life-cycle cost (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A075 444 15/7 1/2

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

An Analysis of the Cost Effectiveness of a Specialized Mission Helicopter in the U.S. Coast Guard. (U)

DESCRIPTIVE NOTE: Master's thesis,
JUN 79 135P King,N. Edward ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Helicopters, *Coast Guard, Missions, Costs, Cost effectiveness, Shipboard, Naval operations, Theses (U)

The operations which might be performed by specialized mission helicopters are identified and several hypothetical mixes of these helicopters are developed and analyzed. Actual flight hours performed in fiscal years 1974 through 1978 are used as a data base for the study. The alternatives are analyzed in terms of total differential costs of performing the same missions that were conducted during the base period. Aspects such as the adding of additional helicopters to stations without additional personnel, dual qualification of personnel, shipboard operations of single-engine helicopters, and the short-range recovery replacement helicopter are also analyzed. It is concluded that it would have been cost effective to have operated specialized mission helicopters during the base period. Projections of future helicopter activity indicate that this advantage would continue into the future. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A075 437 5/1 1/3 14/1

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KS

The A-10 and Design-to-Cost: How Well Did It Work. (U)

DESCRIPTIVE NOTE: Research study,
MAY 79 51P Carleton,Roger E. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Attack bombers, *Contract administration, *Design to cost, Military procurement, Scheduling, Performance(Engineering), Weapon systems (U)
IDENTIFIERS: A-10 aircraft, Constraints (U)

This document covers systems procurement in a design-to-cost atmosphere. Identifies deficiencies in this program and offers recommendations to improve this lack of responsiveness. (Author) (U)

AD-A075 272 5/9 5/1 15/5 14/1

DYNAMICS RESEARCH CORP WILMINGTON MASS

Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition. (U)

DESCRIPTIVE NOTE: Interim rept. Oct 77-Jul 78,
SEP 79 96P King ,Gerard F. ;Askren, William B. ;
CONTRACT: F33615-77-C-0016
PROJ: 1959
TASK: '00
MONITOR: AFHRL TR-79-28(1)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Appendix A, AD-A075 209.
DESCRIPTORS: *Human resources, *Logistics support, *Life cycle costs, *Air Force procurement, Weapon systems, Short takeoff aircraft, Resource management, Data bases, Systems engineering, Decision making, Trade off analyses, Manpower utilization, Air Force training, Aircraft maintenance, Maintenance management, Logistics management, Reliability, Avionics, Landing gear (U)
IDENTIFIERS: WUAFHRL19590002, PE63451F (U)

A methodology, the coordinated human resource technology (CHRT), was developed to quantify critical human resource, logistics, and cost factors throughout aircraft acquisition. Knowledge of these factors helps influence the selection of a system and support design approach. The factors quantified are manpower, training, technical documentation, and system ownership costs. Reliability and maintainability, both of which directly affect the foregoing, are also quantified. The CHRT methodology also implements an integrated approach to personnel, training, and technical documentation, and operates from a single, evolving consolidated data base. This report describes two parts of a three-part demonstration of CHRT application on an aircraft acquisition program. Parts 1 and 2, respectively, use conceptual and validation (prototype) phase data on avionics and landing gear systems of the Advanced Medium STOL Transport (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A075 249 13/5 14/1 13/13

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

A Comparison of Fillet Weld Strength and U.S. Navy Design Specifications for Non-Combatant Ships and the Economic Implications. (U)

DESCRIPTIVE NOTE: Master's thesis,
MAY 78 207P McCabe,William Carl :

UNCLASSIFIED REPORT

DESCRIPTORS: *Welds, *Strength(Mechanics), Comparison, Economics, Specifications, Design to cost, Joints, Corrosion, Fabrication, Geometry, Models, Experimental design, Labor, Theory, Sizes(Dimensions), Loads(Forces), Yard craft, Small ships, Ship hulls, Ships (U)
IDENTIFIERS: Fillet welds, Noncombatant ships, Computer models, Labor costs (U)

There is a great interest in the strength of fillet welds because the welding operation accounts for about 30% of the labor cost in planning and constructing ship hulls. One way to reduce welding cost is to reduce the required weld size. Background information is obtained by reviewing the major experimental and theoretical work in the areas of static strength, fatigues strength, and shear strength of fillet welds. In order to appreciate the conditions in the real world, design considerations, fabrication considerations, and corrosion considerations are discussed. Typical joints from existing U.S. Navy ships are employed to obtain detailed geometry and local loading information to be used as input for a computer model which was developed at Massachusetts Institute of Technology which uses the finite element method for determining the static strength for fillet welds. In one particular joint a reduction of 30% in the required weld size is justified. A future system for analyzing fillet weld strength is proposed and explained by the use of an example. The economics of intermittent and continuous welds are examined, and the economic impact that a reduction in the required fillet weld size would have on ship construction cost is estimated. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A075 209 5/9 5/1 15/5 14/1

DYNAMICS RESEARCH CORP WILMINGTON MASS

Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition- Appendix A. (U)

DESCRIPTIVE NOTE: Interim rept. Oct 77-Jul 78, SEP 79 115P King ,Gerard F. ;Askren, William B. ;
CONTRACT: F33615-77-C-0016
PROJ: 1959
TASK: 00
MONITOR: AFHRL TR-79-28(II)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Appendix A to rept. no. AFHRL-TR-79-28(I), AD-A075 272.
DESCRIPTORS: *Human resources, *Logistics support, *Life cycle costs, *Air Force procurement, Weapon systems, Short takeoff aircraft, Resource management, Data bases, Systems engineering, Decision making, Trade off analyses, Manpower utilization, Air force training, Aircraft maintenance, Maintenance management, Logistics management, Reliability, Avionics, Landing gear (U)
IDENTIFIERS: PE63451F, WUAFHRL19590002 (U)

The Coordinated Human Resource Technology and the Consolidated Data Base have been demonstrated in the conceptual and validation phase of weapon system acquisition. The results of this demonstration are reported in AFHRL-TR-79-28(I). This report (volume II) constitutes Appendix A to that demonstration report and provides additional details of the demonstration. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A075 099 5/10 5/1 14/1

DECISION RESEARCH EUGENE OR

Behavioral Aspects of Cost-Benefit Analysis. (U)

DESCRIPTIVE NOTE: Technical rept.. JAN 79 37P Fischhoff,Baruch ;
REPT. NO. PTR-1077-79-1
CONTRACT: N00014-79-C-0029, ARPA Order-3668

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. PTR-1077-79-5, AD-A075 100.
DESCRIPTORS: *Decision making, *Cost effectiveness, Methodology, Input, Management, Limitations, Cost analysis (U)

Cost benefit analysis asks whether the expected benefits from a proposed activity outweigh its expected costs. Although based on an appealing premise and supported by a sophisticated methodology, these procedures have a number of characteristic limits on their usefulness as management tools. One set of limits is imposed by the unavailability of necessary inputs to the analysis. Neither the values nor the likelihood of many potential costs and benefits can be reasonably approximated by any formal computations. They must be derived in whole or in part by objective and reliable human judgment. Research has shown, however, that probability judgments are often quite unreliable and prone to systematic biases, while judgments of value are highly labile, changing with subtle (and formally irrelevant) shifts in the elicitation procedures. Relatively little is known about how to reduce these differences or assess the impact of those that remain. Related difficulties in assessing the quality of analyses comprise a second set of limits. There have been few systematic evaluations of formal analyses or attempts to develop a methodology for assessment. A third set of limits is the inability of the procedures to address critical issues in the management process they are designed to aid. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A074 454 5/1 21/5

BOEING AEROSPACE CO SEATTLE WA BOEING MILITARY AIRPLANE DEVELOPMENT ORGANIZATION

An Extension of Engine Weight Estimation Techniques to Compute Engine Production Cost. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 79 38P Onat,E. ;Tolle,F. F. ;
CONTRACT: N62269-78-C-0286
MONITOR: NADC 78103-60

UNCLASSIFIED REPORT

DESCRIPTORS: *Turbojet engines, *Cost estimates, *Computer programs, Military aircraft, Engine components, Weight, Alloys, Industrial production, Costs, Coding (U)
IDENTIFIERS: LPN-NPRC-1939D/XS901 (U)

As a follow-on to previously developed engine weight estimation work, a preliminary design engine cost estimating code has been produced. The code relies on engine thermodynamic characteristics and weight as computed by earlier developed codes to select raw material types and quantities required to produce the engine An existing Navy technique is then used to convert this data into engine cost. The code was used to predict the cost of three existing engines; errors ranged form 1 to 8% of actual costs as reported to NADC. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A074 394 13/8 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

The Value of the Base Level Industrial Engineer. (U)

DESCRIPTIVE NOTE: Master's thesis,
JUN 79 120P Caples,Buddy C. ;Kwan, Anthony J. :
REPT. NO. AFIT-LSSR 12-79A

UNCLASSIFIED REPORT

DESCRIPTORS: *Industrial engineering, *Military facilities, *Cost effectiveness, Personnel management, Ratings, Management engineering, Operations research, Data acquisition, Problem solving, Theses (U)
IDENTIFIERS: *Facilities management (U)

The objectives of this thesis were to calculate the perceived benefit/cost index of each base level Industrial Engineering (IE) responsibility and to determine the variables that significantly affect the perceived value and effectiveness of each base level IE responsibility. The majority of the thesis was developed around a questionnaire entit ed Industrial Engineering Cost Effectiveness. The questionnaire was mailed to all Air Force bases having an industrial engineering branch of three or more personnel. The population surveyed included officers and civilians holding the following positions at each base: Base Civil Engineer, Deputy Base Civil Engineer, Chief of Industrial Engineering, Chief of Engineering and Environmental Planning, Chief of Operations and Chief of Resources and Requirements. The results of the survey indicate that the perceptions of the value and effectiveness, importance and benefit/cost index are different for each responsibility. Variables that influence the perceived value and effectiveness of base level IE were identified. Some of the changes that would enhance the perceived value of each IE responsibility are: giving IE personnel training in writing technique, oral techniques, feedback and quantitative analysis; allowing IE to participate in establishing goals and objectives for its branch. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A074 189 5/9

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

An Analysis of the Cost Implications of Employing Success Predictive Criteria in the Process of Selecting Navy Recruiters. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 79 142P Shupack,Mary Anderson :

UNCLASSIFIED REPORT

DESCRIPTORS: *Recruiting, *Recruiters, Personnel selection, Naval personnel, Performance(Human), Systems analysis, Cost analysis, All volunteer, Theses (U)

This study analyzed the performance of enlisted Navy recruiters from recruiting stations throughout the United States against a measure of effectiveness defined in terms of the NAVCRUITCOM Honor Roll. Six variables describing personal characteristics were analyzed in an attempt to explain recruiter success. The study showed that the best predictor of recruiter success was the level of formal education attained while the best explanation for recruiter failure was the individual's race. Cost implications of high turnover and low productivity within the Navy recruiting force were then outlined and the role improved recruiter selection techniques could play in reducing these costs discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A074 054 15/7 16/4 12/2

BATTELLE COLUMBUS LABS OH

Cost-Driver Analysis for Computerized Production Process Planning. (U)

DESCRIPTIVE NOTE: Final rept..
JUL 79 164P Hill,Terrance E. :Byrer, Thomas G. :Noton,Bryan R. :
CONTRACT: DAAK40-77-R-0138

UNCLASSIFIED REPORT

DESCRIPTORS: *Army planning, *Guided missiles, *Operations research, Cost analysis, Flow charting, Management engineering, Production, Data acquisition, Computer programs, Savings (U)

This report describes the work done by Battelle's Columbus Laboratories (BCL) for the U.S. Army Missile Research and Development Command (MIRADCOM) to develop a methodology for examining missile manufacturing costs, cost drivers in manufacture, and future missile MANTECH programs from the standpoint of best ROI of funds. This objective has been met through the development of a missile parts classification system (MPCS) which provides a methodology for examining cost drivers in missile manufacture plus a variety of other interactive possibilities achievable through the availability of cost information at the discrete part level. As devised, this methodology will accommodate both present as well as future missile systems. In other words, the methodology is designed such that as new technologies develop, the system is sufficiently flexible to accommodate these changes. Data would be stored and retrieved from a computer to allow general comparisons of costs which will identify cost drivers, MANTECH projects with high ROI, and estimates of future missile costs. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 972 5/1 14/1 9/2

ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume V. Slide-Rule Model System User's Guide. (U)

JUL 79 33P Neches,Thomas M. ;
REPT. NO. AG-PR-A101-VOL-5
CONTRACT: N00014-78-C-0465

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A073 968.
DESCRIPTORS: *Cost analysis, *Cost models, *Design to cost, Life cycle costs, Models, Instructions, Input, Computer programs, Computer applications, Manuals (U)

The Level I 'Slide-Rule' Cost Model System is implemented on a Texas Instruments TI-59 programmable calculator coupled to a TI-PC-100A Print/Security Cradle. The model system consists of four linked programs, the Top-Down Model, (TDM) the Lowest Removable Assembly Model (LRAM), the System Aggregation Model (SAM), and the System Confidence Model (SCM). Each program and its data input sets are stored on magnetic cards. The output of each program is used as input to succeeding programs, together with additional input data. The TI-59 has 120 program/data registers, which can be partitioned as desired between program instruction steps and data memory registers. When the calculator is turned on, 60 memory registers are automatically reserved for data storage. All programs other than the TDM use the default allocation. The TDM, however, uses only 40 registers for data storage; the remainder is used to store the program code. Therefore, when running the TDM, the first step after turning on the calculator will be to repartition the memory registers. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 971 5/1 14/1 9/2

ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume IV. Slide-Rule Model System Program Manual. (U)

JUL 79 57P Neches,Thomas M. ;
REPT. NO. AG-PR-A101-VOL-4
CONTRACT: N00014-78-C-0465

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 5, AD-A073 972.
DESCRIPTORS: *Cost analysis, *Cost models, *Design to cost, Life cycle costs, Spare parts, Algorithms, Flow charting, Equations, Mathematical models, Computer applications, Computer programs, Manuals (U)

The Slide-Rule Life Cycle Cost Model System (SRS) has been designed as an aid to system, subsystem ad assembly designers in making cost estimates and trade-offs early in the design process. At this stage it is still posible for cost analysis to influence design - system cost has not yet been 'locked in' due to the lack of flexibility in system configuration which occures in the later phases of design. The SRS consists of four linked programs implemented on a Texas Instruments TI-59 programmable calculator coupled to a TI PC-100A printer. Each program is appropriate to a different design phase and aggregation level. The first estimates the life cycle costs of a system by making simplifying assumptions about its subelements: the second is used for the design of a single Lowest Removable Asembly (LRA); the third estimates system or subsystem costs by aggregatino the costs of its subelements. computed in the second program; the fourth is a specialized program used to compute the achieved system confidence level against a stock-out of spare parts. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 970 5/1 14/1 9/2

ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume III. NEDCOM User's Guide. (U)

JUL 79 14P Benner,Lynne E. ;Neches, Thomas M. ;

REPT. NO. AG-PR-A101-Vol-3
CONTRACT: N00014-7C-C-0465

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 4, AD-A073 971.
DESCRIPTORS: *Cost analysis, *Cost models, *Design to cost, Life cycle costs, Electronic equipment, Computer applications, Repair, Estimates, Shipboard, Manuals, Computer programs (U)
IDENTIFIERS: NEDCOM(Naval Electronics Design Cost Model) (U)

The Naval Electronics Design Cost Model (NEDCOM) is implemented on the APPLE II Computer System. NEDOCM configures a system cut of individual Lowest Removable Assemblies (LRA's). The program is capable of handing a system consisting of up to 100 distinct LRA types, each of which is characterized by 7 input variables. In addition, NEDCOM requires as input 61 system-level variables which describe the system operating environment, system manpower and training requirements, system design, and the Naval support environment. The user is given a choice of six different run type options. He can enter new system and LRA data, append a new LRA configuration to an existing system description, alter data previously entered and stored on disk, add additonal LRA types to an existing LRA configuration, perform sensitivity analysis on system variables, and finally, run a previously stored system configuration without making any changes. The first two options create new information files which are stored on disk for future use. The third andfourth options are used to alter the information stored on these files. The final two options execute system runs without any changes in stored data. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 969 5/1 14/1 9/2

ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume II. The Naval Electronics Design Cost Model (NEDCOM): Program Manual. (U)

JUL 79 44P Neches,Thomas M. ;Benner, Lynne E. ;

REPT. NO. AG-PR-A101-VOL-2
CONTRACT: N00014-78-C-0465

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A073 970.
DESCRIPTORS: *Cost analysis, *Cost models, *Design to cost, Life cycle costs, Electronic equipment, Computer applications, Repair, Estimates, Shipboard, Flow charting, Algorithms, Spare parts, Manuals, Equations, Computer programs (U)
IDENTIFIERS: NEDCOM(Naval Electronics Design Cost Model) (U)

The Naval Electronics Design Cost Model (NEDCOM) is an interactive computer cost model which estimates the life cycle cost of electronic systems to be deployed in a Navy Shipboard environment. It has been designed to aid the system and component designer in conducting design/cost trade-off analysis, as well as providing a link between the designer and the logistics support specialist. NEDCOM is implemented on an APPLE II desktop computer system. While far more capable and sophisticated than the programmable calculators used for the Level I Slide-Rule cost models (see Volumes IV and V), the APPLE II is much smaller and less expensive than the full-scale computer systems required for the Level III Model (see Volume I). Some of the main features of NEDCOM are the following. Life cycle cost for individual Lowest Removable Assemblies (LRA) are computed for four levels of repair postures: repair at a contractor operated depot, repair at a military operated depot, local repair, and discard at failure. The lest cost of the four postures is automatically selected and aggregated to system level costs to produce a total system life cycle cost estimate. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 968 5/1 14/1 9/2

ASSESSMENT GROUP SANTA MONICA CA

Demonstration Model System. Volume I. Mathematical Models. (U)

JUL 79 110P Neches,Thomas M. ;Butler, Robert A. ;

REPT. NO. AG-PR-A101-VOL-1
CONTRACT: N00014-78-C-0465

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A073 969.
DESCRIPTORS: *Cost analysis, *Manpower, *Cost models, *Mathematical models, Life cycle costs, Production, Spare parts, Repair, Inventory, Transportation, Computer applications (U)

The objective of the project reported in these Volumes is to elucidate the principles of hardware/manpower cost analysis developed in an earlier study, A Framework for Hardware/Manpower Tradeoff Analysis During the Weapon System Acquisition Process. In this Volume, six models are presented. The Level III Model is the most complex and its exposition is used to set notation and explain the underlying concepts of all the models. It is intended to be implemented on a large, production computer. The Level II Model, less complex, was developed for implementation on a stand-alone micro-computer of the sort one might expect to be available to a design team. There are four Level I Models, all developed for use on a programmable calculator. Of the six models, all but the Level III Model have been programmed as part of this project. The Level II Model has been programmed in BASIC on a 48 K microcomputer. A User's Guide and Program Manual for that model constitute Volumes II and III of this study. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 781 5/1 14/1

NORTH CAROLINA STATE UNIV RALEIGH

Optimal Project Compression with Due-Dated Events. (U)

79 19P Elmaghraby,S. E. ;Pulat,P. S. ;

CONTRACT: DAAG29-76-G-0204
MONITOR: ARO 13119.3-M

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v26 n2 p331-348 Jun 79 (No copies furnished by DDC).
DESCRIPTORS: *Network analysis(Management), *Cost models, Algorithms, Optimization, Flow charting, Reprints (U)

Reprint: Optimal Project Compression with Due-Dated Events.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 681 17/7 14/1

ARINC RESEARCH CORP SANTA ANA CA

Avionics Installation (AVSTALL) Cost Model for User Equipment of NAVSTAR Global Positioning System. (U)

JUN 79 48P Stewart,W. ;Allen,D. ; Orth,P. ;

REPT. NO. 1727-04-1-1959
CONTRACT: F04701-78-C-0124

UNCLASSIFIED REPORT

DESCRIPTORS: *Global Positioning System, *Avionics, *Cost models, Installation, Costs, Modification, Military aircraft, Parts, Regression analysis, Least squares method (U)
IDENTIFIERS: Navstar project, Effectiveness (U)

An avionics installation (AVSTALL) cost model developed for application to the Navstar Global Positioning System (GPS) is described. The model determines the aircraft-peculiar costs of intailing avionics equipment--for example, GPS user equipment--into military aircraft. It is based on cost estimating relationships (CERs) developed from an analysis of 51 previous Class V avionics modifications to Air Force aircraft. The development and application of these CERs are explained in this report. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 554 15/5 13/13

KAMAN AEROSPACE CORP BLOOMFIELD CT

Design Assessment of Advanced Technology Lightweight, Low-Cost Mission-Configured Gondola Modules. (U)

DESCRIPTIVE NOTE: Final rept. Aug 78-Mar 79.
JUL 79 175P Porterfield,John D. :
REPT. NO. R-1558
CONTRACT: DAAK51-78-C-0012
PROJ: 1L162209AH76
TASK: 00
MONITOR: USARTL TR-79-16

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. USAAMRDL-TR-77-28.
DESCRIPTORS: *Gondolas, *Cargo handling, *Structural engineering, Helicopters, Modular construction, Floors, Superstructures, Tubular structures, Beams(Structural), Metal plates, Mechanical cables, Structural analysis, Lightweight, Low costs (U)
IDENTIFIERS: *HEGS(Helicopter External Gondola System), WU244, AS476, PE62209A (U)

The objectives of this program were to identify applicable high strength materials and efficient structural concepts for application to various elements of the helicopter external gondola system (HEGS) and to subsequently prepare preliminary design arrangements for the HEGS-10, HEGS-20, and HEGS-Palletized modules.(Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 507 11/4 1/3 5/3 9/2

GRUMMAN AEROSPACE CORP BETHPAGE NY

Manufacturing Cost Data Collection and Analysis for Composite Production Hardware. (U)

DESCRIPTIVE NOTE: Final rept. Sep 77-Feb 79,
MAY 79 109P Rachowitz,B. I. ;Coletti, R. J. ;Tornabe,A. J. ;
CONTRACT: F33615-77-C-3022
PROJ: 2401
TASK: '03
MONITOR: AFFDL TR-79-3041

UNCLASSIFIED REPORT

DESCRIPTORS: *Composite materials, *Cost analysis, *Cost estimates, *Composite structures, *Airframes,' *Computerized simulation, Tape wound construction, Manufacturing, Validation (U)
IDENTIFIERS: Advanced Composite Cost Estimating Model, PE62201F, WUAFFDL24010326 (U)

This technical report documents the procedures used to validate the Advanced Composite Cost Estimating Model, by comparing the model output with actual costs measured during production fabrication. This validation also includes recommendations as to the limitations and improvements that can be made to the model. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 429 17/2.1 14/1

COMPUTER SCIENCES CORP FALLS CHURCH VA

Earth Terminal Subsystem Study. Volume 1 - Small Terminal Cost Analysis. (U)

DESCRIPTIVE NOTE: Final technical rept.,
MAY 79 50P Winebarger,Ross :
CONTRACT: DCA100-76-C-0089
MONITOR: SBIE AD-E100 271

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 4. AD-A073 356. Prepared in cooperation with Harris Corp., Melbourne, FL. Government Systems Group.
DESCRIPTORS: *Communication satellite terminals, *Communication terminals, Cost analysis, Cost effectiveness, Communication equipment, X band, Antennas, Klystrons, Radio equipment, Military procurement, Trade off analyses (U)
IDENTIFIERS: Satellite communications, Earth terminals, Satellite terminals (U)

This report addresses the cost sensitivities of the major components of a small economical earth terminal. A baseline X-band terminal is proposed which has a G/T of 20 dB AND AN EIRP of 72 dBW. Parametric curves are developed which show the changes in hardware cost corresponding to moderate changes in component characteristics around the baseline values. Parametric cost curves are developed for changes in the antenna diameter, RMS surface accuracy, antenna efficiency, antenna wind performance, transmitter power, type of low-noise amplifier, oscillator stability, and phase noise performance. Cost data is then developed and presented for changes in the terminal G/T, EIRP, and availability around the baseline terminal performance. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A073 400 5/9

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

Cost-Effectiveness of Computer-Based Instruction in Military Training. (U)

DESCRIPTIVE NOTE: Final rept. Oct 77-Mar 79,
APR 79 218P Orlansky,Jesse ;String, Joseph ;
REPT. NO. IDA-P-1375
CONTRACT: DAHC15-73-C-0200
MONITOR: IDA/HQ,SEIE 78-20721,AD-E500 088

UNCLASSIFIED REPORT

DESCRIPTORS: *Military training, *Cost effectiveness, Computer aided instruction, Individualized training, Performance(Human), Students, Job training, Education, Schools (U)

The cost and effectiveness of computer-based instruction for military training are evaluated on the basis of about 30 studies conducted since 1968. Four methods of instruction are distinguished and compared: Conventional Instruction: group-paced lectures, and discussions. Individualized Instruction: self-paced (without computer support). Computer-Assisted Instruction (CAI): computer stores and provides instructional materials to students individually via interactive terminals; computer tests and guides students; self-paced. Computer-Managed Instruction (CMI): instructional materials and tests provided away from computer; computer scores the tests and guides students; self-paced. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A073 314 5/1 16/4

ARMY MISSILE MATERIEL READINESS COMMAND REDSTONE ARSENAL AL COST ANALYSIS DIV

Target Missile Airframe Costs. (U)

DESCRIPTIVE NOTE: Technical rept.,
MAR 79 22P Anderson,William P. ;
REPT. NO. DRSMI-FC-79-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Target drones, *Airframes, *Cost estimates, Production, Equations, Regression analysis (U)
IDENTIFIERS: MQM-74C missiles, MQM-51A missiles, Rechead-Roadrunner, MQM-107A missiles, AQM-37A missiles, BQM-34A missiles (U)

A parametric method of estimating the production cost for a proposed TARGET Missile Airframe is presented in this report. A cost estimating relationship (CER) has been developed based upon an independent variable, the estimated airframe weight in pounds. The independent variable (Y) in the CER, Y = (A+Bx) squared, represents the average unit production cost for the first 700 airframes produced in terms of FY 77 constant dollars. The methodology used in developing this CER as well as a presentation of data and TARGET Missile Technical Descriptions, is included for the benefit of the cost estimator. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 067 5/1 15/5 9/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

Evaluation of the Engineering Change Proposal Cost Evaluation Model. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 79 104P Kehres,John W. ;Kolpin,E. Dan ;
REPT. NO. AFIT-LSSR-21-79A

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Life cycle costs, Modification, Contract proposals, Computerized simulation, Costs, Comparison, Decision making, Logistics support, Weapon systems, Systems engineering, Aeronautical engineering, Air Force Logistics Command, Logistics management, Thes (U)
IDENTIFIERS: ECP(Engineering Change Proposals) (U)

This thesis effort was directed toward the evaluation of a computer model designed as a tool for assessing cost impacts of aircraft engineering change proposals. The Engineering Change Proposal (ECP) Cost Evaluation Model was evaluated in a comparative analysis against the Air Force Logistic Command Logistics Support Cost (LSC) Model. Both models were exercised using data for a hypothetical aeronautical weapon system. The first run of the data served to establish a baseline configuration to which simulated ECPs could be compared against. Subsequent runs were made with changes to the baseline cost estimates recorded. Cost estimates of the baseline configuration were compared to cost estimates of the changed configuration. Comparisons were made of the percent of change within each model and the total cost prediction between the two models. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A073 018 14/1 21/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

The Use of the Maurer Factor for Estimating the Cost of a Turbine Engine in the Early Stages of Development. (U)

DESCRIPTIVE NOTE: Final rept. Jun 78-Jun 79.
JUN 79 155P Barrett,Charles W. , Jr.; Koenig,Michael J. ;
REPT. NO. AFIT-LSSR-19-79A

UNCLASSIFIED REPORT

DESCRIPTORS: *Turbojet engines, *Cost estimates, *Cost models, Parametric analysis, Statistical analysis, Regression analysis, Theses (U)
IDENTIFIERS: *Maurer factor (U)

Military managers are faced with increasing systems costs. One area where this increasing cost is especially true is in the acquisition of aircraft weapon systems. A driving factor in the aircraft cost is the turbine engine, and therefore acquisition managers have been tasked with developing cost estimating methods that will more accurately predict turbine engine cost. At present, several parametric costing models available are briefly discussed in this report. However, the primary objective of this report, is to evaluate a costing technique used extensively by the Navy--the Maurer Factor (MF) technique. The MF technique is a parametric costing technique based on the materials in a turbine engine. The report includes the following: (a) a detailed description of the MF technique; (b) a validation of the MF technique; (c) the development of an estimated MF (EMF) model using engine performance parameters; and (d) statistical analysis and validation of the EMF models. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A073 003 14/1 5/1

ADJUTANT GENERAL CENTER WASHINGTON DC POSTAL DIRECTORATE

Evaluation of Postage Meters and Decentralized Accountability for Official Mail Costs. (U)

DESCRIPTIVE NOTE: Final rept. 5 Sep 78-30 Jun 79.
JUL 79 57P Beasley,Louis J. , Jr.:
Sanders,Richard B. , Jr.:Canidakis,Minnie M.
;
REPT. NO. PL-79-01

UNCLASSIFIED REPORT

DESCRIPTORS: •Postage meters, Accountability, Costs, Cost effectiveness, Management, Army (U)
IDENTIFIERS: •Mail costs (U)

The Evaluation of Postage Meters and Decentralized Accountability for Official Mail Cost was conducted in three phases (5 Sep 78-30 Jun 79) at four activities: The Adjutant General Center (TAGCEN); USA Military Personnel Center (MILPERCEN); USA Reserve Components Personnel and Administration Center (RCPAC); and USA AG Publications Center, St. Louis (SLAGPC). The objective of the study was to determine the cost effectiveness of postage meters and decentralized accountability for official mail costs, and the desirability of discontinuing the current sampling based United States Postal Service (USPS billing system. Major impetuses for the study were: (1) Questionable validity of the USPS sampling system for billing purposes; (2) Requirement for more precise user information to support positive dynamic management; (3) Lack of funding and user incentive to select less costly mailing alternatives; and (4) DAIG inspection (Feb 78) conclusion that there is essentially no management of Army official mail costs at DA or user level. It was determined during the study that postage meters were cost effective. Projection of test site postage meter savings Army-wide for FY79 yields a gross savings estimate of $6,556,918. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A072 697 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

An Analytical Evaluation of Procedures for Closing Cost-Type Contracts. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 79 107P Bristow,Michael B. :Woad,
Joseph E. ;
REPT. NO. AFIT-LSSR-15-79A

UNCLASSIFIED REPORT

DESCRIPTORS: •Contract administration, •Indirect costs, Contracts, Regulations, Methodology, Costs, Risk, Theses (U)
IDENTIFIERS: Contract negotiations, Overage contracts (U)

Physically completed open contracts are an administrative and financial burden to the government. The Air Force had a procedure for the early closeout of cost-type contracts overage due to overhead negotiation. This procedure was superseded by an early closeout procedure subsequently published in the Defense Acquisition Regulation (DAR). The primary objectives of this thesis are to (1) compare current data to previous data which indicated that overhead negotiation was the primary reason for overage contracts to determine if this condition still exists and (2) determine if the DAR early closeout procedure is accomplishing its goal. This study concludes that (1) negotiations of overhead continue to be the primary reason for contracts becoming overage; and (2) the DAR procedure hinder the early closeout of contracts by certain contractors who were previously agreeable to closing contracts using the Air Force procedure. The latter conclusion attributed to the increased cost risk to the contractor. It recommended that a more flexible procedure be adopted for the early closeout of physically completed cost-type contracts. This flexibility will allow procedural variations to be used as required by each particular situation. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 670 21/5 14/1 5/1 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

Validation of the Detroit Diesel Allison Logistic Support Cost Model (Program OS 590). (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 79 82P Creek,Howard E. ; Harlampakis,Christopher N. , Jr;
REPT. NO. AFIT-LSSR-20-79A

UNCLASSIFIED REPORT

DESCRIPTORS: *Gas turbines, *Life cycle costs, *Cost models, Military procurement, Logistics management, Maintenance management, Department of Defense, Logistics support, Theses (U)

The Department of Defense (DOD) is genuinely concerned about Operation and Support Costs (O/S) during the early stages of the aquisition process. An area of particular interest to the Air Force Aero Propulsion laboratory (AFAPL) was the validation of Detroit Diesel Allison's O/S cost model, OS590. This study was designed to assist the AFAPL in determining O/S costs for future advanced high technology turbine engines. The results of this research include the following findings: (a) input data for OS590 within the scope of this effort was available from Air Force sources; (b) OS590 produced valid O/S costs; (c) OS590 was sensitive to selected input parameters; and (d) the Directorate of Propulsion YZLR reviewed and agreed that OS590 was complete. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 592 15/5 14/1 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF SYSTEMS AND LOGISTICS

A Summary and Analysis of the Logistics Support Cost Model Application to the ACF/F-16 Weapon System Acquisition. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 79 126P Davis,William R. ;Wysocki, John R. :
REPT. NO. AFIT-LSSR-6-79A

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Jet fighters, *Logistics support, Cost analysis, Operation, Mathematical models, Weapon systems, Air Force procurement, Acquisition, Air Force Logistics Command, Theses (U)
IDENTIFIERS: F-16 jet fighters, A-10 aircraft, Operating and support cost models (U)

Department of Defense Directive 5000.2 states that Life Cycle Cost (LCC) must be considered in the acquisition of major weapon systems. One of the primary tools used in applying LCC techniques is the operating and support (O/S) cost model. One such model--Air Force Logistics Command's Logistics Support Cost (LSC) model--has recently been employed in the ACF/F-16 acquisition program and continues to be used in managing the F-16 program. This was only the second time an O/S type model had been used in major systems aquisition; the first was with the A-10. The question has arisen whether the use of an O/S type model been effective in acquiring systems with lower operating and support cost. Research focusing on the A-10 O/S cost model use surfaced several major deficiencies. This thesis having focused on the F-16 LSC model use, indicates that improvements have been made, but additional improvements are necessary before the use of O/S type models can be fully effective. The results of face-to face interviews with General Dynamics and Northrop personnel, involved in the ACF/F-16 program, provided an interesting perspective and give added credence to research findings and recommendations. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0ML.

AD-A072 553 14/1 5/1 15/5

CAVER (TROY V) DOVER NJ

Inhibitors to the Use of Life Cycle Costing: Results of a Survey of Military/ Industrial Managers. (U)

AUG 79 27P Caver,Troy V. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Military procurement, *Logistics management, Policies, Long range(Time), Decision making, Department of Defense, Cost models, Regulations, Standards (U)

This study was undertaken in an attemot to determine the reasons for limited use of life cycle costing in material management. The author, while a member of Training and Doctrine Command in Combat Developments for six years and then in project management activities for the next two years, saw a great divergence of opinion in the use of life cycle cost. The decision makers in TRADOC were considering long range cost to the government in their Cost and Operational Effectiveness Analysis (COEA), DoD policy makers were praising life cycle cost as a decision criteria. The Defense Systems Management College taught life cycle cost as the primary consideration for long term logistic decisions, yet the project management personnel appear to be lacking in how and when to apply life cycle cost techniques. It was apparent to the author that this was a wide spread problem which would result in continued higher long term cost to the government unless an acceptable cost criteria could be established by DoD and provided to decision makers as implementing guidance. This study examined the attitudes of DoD policy makers, DoD project managers, and Industry project managers toward life cycle costing and their perception of the guidance and criteria in its implementation. (Author) (U)

AD-A072 553 UNCLASSIFIED PAGE 51

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 355 9/2 5/1 12/1

ALFRED P SLOAN SCHOOL OF MANAGEMENT CAMBRIDGE MASS CENTER FOR INFORMATION SYSTEMS RESEARCH

A Normative Cost-Benefit Analysis of the Systematic Design Methodology. (U)

DESCRIPTIVE NOTE: Technical rept.. MAY 79 73P Huff,S. L. ;
REPT. NO. CISR-P010-7905-1v, CISR-TR-10
CONTRACT: N00039-78-G-0160

UNCLASSIFIED REPORT

DESCRIPTORS: *Information systems, *Cost analysis, *Benefits, *Computer programming, Systems analysis, Decomposition, User needs, Requirements, Functional analysis, Decision making, Optimization, Numerical methods and procedures, Computer architecture, Mathematical models, Integrated systems, Planning (U)
IDENTIFIERS: SDM(Systematic Design Methodology), Design, *Systems design, Complex systems (U)

Complex design problems are characterized by a multitude of competing requirements. System designers, finding the scope of the problem beyond their conceptual abilities, frequently cope with this difficulty by decomposing the original design problem into smaller, more manageable sub-problems. Functional requirements form a key interface between the system's users and its designers. This report proposes a systematic approach for the decomposition of the overall set of functional requirements into sub-problems to form a design structure that will exhibit the key characteristics of good design: strong coupling within sub-problems, and weak coupling between them. Recent work in the Systematic Design Methodology (SDM) project has led to certain extensions to the basic representational model. This report presents a normative cost-benefit analysis of the SDM. It is a decision support methodology for aiding a software designer in determining an optimal structuring of a system's functional requirements. A model-oriented, normative cost/benefit analysis of the SDM is presented. A set of three sub-models, pertaining to specification impact, procedural design impact, and maintenance/modification impact, are derived. (U)

AD-A072 355 UNCLASSIFIED Z0M07

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 352 5/3 15/3

VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardiza.ion and Specialization. Volume III. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 78 143P Greenwood,David ;Klotz, Benjamin P. ;Smith,T. Arthur ;Hartley,Keith ; Pettijohn ,William C. ;
CONTRACT: MDA903-78-C-0166

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Management Analysis, Inc., Bethesda, MD. See also Volume 1, AD-A072 348.
DESCRIPTORS: *Economic analysis, *Cost analysis, Tactical weapons, NATO, Military budgets, Economic warfare, International relations, Political alliances, Production control, Standardization, Specialization, Methodology, Cost overruns (U)
IDENTIFIERS: Cost benefits (U)

This Technical Report describes a methodology for examining potential cost savings to the NATO community through standardization and/or specialization in weapons systems procurement. The methodology is one of comparative cost analysis and specifically establishes procedures for comparing program costs for alternative weapon system buys under two or more competing procurement strategies. Five procurement strategies are considered. Four alternatives were defined prior to contract start and selected by the COTR. The Fifth, termed 'National Initiative,' was developed to provide a base case. Initial consideration of the problem posed showed that potential cost savings should be identified early in the development stage. This led to a decision to structure the methodology by major subsystems since conventional cost estimating techniques permit estimating based on performance characteristics, and these may be the only distinguishing features in the early development stage. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 351 5/3 15/3

VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume II, Appendix II. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 78 32P Greenwood,David ;Klotz, Benjamin P. ;Smith,T. Arthur ;Hartley, Keith ;Pettijohn,William C. ;
CONTRACT: MDA903-78-C-0166

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with C and L Associates, Inc., Potomac, Md. See also Volume 3, AD-A072 352.
DESCRIPTORS: *Economic analysis, *Cost analysis, Tactical w ons, Weapon systems, Military budgets, P.. ction control, Standardization, Specialization, Policies, Economic warfare, Cost overruns, NATO, International relations, Political alliances (U)
IDENTIFIERS: Cost benefits (U)

This stud surveys the literature on scale economies and learning in production to develop the basic information needed to assess the potential cost savings resulting from a rationalization and reshuffling of weapons production to the nations with the lowest cost of production. That is, a framework is constructed to measure the savings from specialization and division of labor in the production of military products. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 350 5/3 15/3

VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume II. Appendix I. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 78 95P Greenwood,David ;Klotz, Benjamin P. ;Smith,T. Arthur ;Hartley,Keith ; Pettijohn ,William C. ;
CONTRACT: MDA903-78-C-0166

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with C and L Associates, Inc., Potomac, MD. See also Volume 2, Appendix 2, AD-A072 351.
DESCRIPTORS: *Economic analysis, *Cost analysis, Tactical weapons, Standardization, Specialization, Production control, NATO, International relations, Military budgets, Cost overruns, Policies, Political alliances, Methodology, Industrial production (U)
IDENTIFIERS: Cost benefits (U)

Standardization is believed to offer major cost savings, but there are few published studies which provide any evidence. This study concentrates on the possible savings from standardization in weapons production. The military benefits and the savings in operating costs are not considered. Such savings could be substantial. This paper reviews the available evidence from industrial economics and international trade studies to see whether it provides any insights into the magnitude of the possible gains from weapons standardization in production. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 349 5/3 15/3

VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 78 184P Greenwood,David ;Klotz, Benjamin P. ;Smith,T. Arthur ;Hartley,Keith ; Pettijohn ,William C. ;
CONTRACT: MDA903-78-C-0166

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with C and L Associates, Inc., Potomac, MD. See also Volume 2, Appendix 1, AD-A072 350.
DESCRIPTORS: *Economic analysis, *Cost analysis, Tactical weapons, Military doctrine, NATO, Production control, Policies, Political alliances, International relations, Standardization, Specialization, Military budgets, Economic warfare, Cost overruns (U)
IDENTIFIERS: Cost benefits (U)

Contents: Context and Approach -- The policy context, The analytical approach: The Budgetary Setting -- Procurement in selected NATO countries' budgets, National armaments plans for the 1980s and beyond: Production Economies -- Estimating production economies (1) Basic concepts and mehtods, Estimating production economies (2) Empirical evidence reviewed, and Scale economies, learning and international competitiveness: Acquisition Methods and their budgetary impact -- Alternatives and assessed savings. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 348 5/3 15/3

VERTEX CORP ROCKVILLE MD

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume I. (U)

DESCRIPTIVE NOTE: Final rept., OCT 78 46P Greenwood,David ;Hartley, Keith ;Klotz,Benjamin ;Pettijohn,William ; Smith,T. Arthur ;
CONTRACT: MDA903-78-C-0166

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A072 349.
DESCRIPTORS: *Economic analysis, *Cost analysis, Tactical weapons, Weapon system effectiveness, NATO, Production control, Political alliances, International relations, Standardization, Specialization, Industrial production, Economic warfare, Cost overruns, Methodology (U)
IDENTIFIERS: Cost benefits (U)

This study defines and demonstrates interrelated methodologies for estimating the costs of cooperative NATO weapons systems production programs for (a) individual programs (the MICRO methodology) and (b) NATO Alliance member nations (the MACRO methodology). The MICRO methodology is based on standard cost estimating techniques and requires detailed input data concerning production factors. The MACRO methodology relies on production data from analogous industrial activities in combination with gross expected major system acquisitions to estimate gross economies available to the Alliance from utilization of least cost production option. Cost estimates derived by both MICRO and MACRO methodologies are for demonstration purposes only. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A072 310 5/1 17/7 14/1

ARINC RESEARCH CORP ANNAPOLIS MD

LCC/DTC Tasks Conducted for GPS Army User Equipment. (U)

DESCRIPTIVE NOTE: Summary rept. Oct 75-30 Jun 79, JUN 79 15P Nelson,R. R. ;Schaefer,J. N. ;
REPT. NO. 1172-02-6-1930
CONTRACT: F04701-76-C-0028

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Global positioning system, Design to cost, Scheduling, Mathematical models, Cost estimates, Army equipment (U)

This report describes tasks related to life cyclecost/design-to-cost support of the Army user equipment development for the Global Positioning System. The tasks included life cycle cost modeling, review of development contractor cost data, analysis of program schedule and cost risks, generation of cost estimates for the Army's Cost and Operational Effectiveness Assessment, and support for the preparation of the user equipment Baseline Cost Estimate for ASARC II and DSARC II presentation. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A071 473 13/10 5/1

CENTER FOR NAVAL ANALYSES ALEXANDRIA VA

Maintenance Costs of Complex Equipment. (U)

DESCRIPTIVE NOTE: Professional paper,
DEC 78 25P Sherman,Allan ;Horowitz,
Stanley A.' ;
REPT. NO. CNA-PP-244

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval vessels, *Maintenance management, *Naval equipment, Cost analysis, Downtime, Repair, Operations research, Deterioration, Naval training (U)
IDENTIFIERS: Maintenance of complex equipment (U)

One of the chief responsibilities of Navy managers is the material condition of ships in the fleet. They must be aware of equipment deterioration and must decide how to best allocate resources to reduce equipment downtime, thereby reducing maintenance costs and improving the material condition of the fleet. Among the questions this paper addresses are: How much more is complex equipment down? and Are high quality enlisted personnel more valuable in dealing with more complex equipment? The answers to these questions indicate that fleet material condition can be improved by revised personnel policies. By more precisely assigning skilled men to ships with complex equipment, the Navy could reduce equipment downtime thereby improving readiness and decreasing maintenance costs. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A071 428 13/3

FOREST PRODUCTS LAB MADISON WIS

Comparative In-Place Costs of Wood and Steel Framing. (U)

DESCRIPTIVE NOTE: Forest Service research paper.
79 44P Spelter,Henry :
REPT. NO. FSRP-FPL-334

UNCLASSIFIED REPORT

DESCRIPTORS: *Structural members, *Steel, Frames, Floors, Housing(Dwellings), Costs, Comparison (U)

The comparative in-place costs of wood and steel light residential framing were examined for the period 1970-1978. Material and labor requirements were calculated for floor, nonload-bearing partition, and load-bearing wall framing systems using Douglas-fir and southern pine lumber, and galvanized steel shapes. Material and labor costs were those prevailing in the Chicago area. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A071 110 9/5 14/1 17/9

BATTELLE COLUMBUS LABS OHIO

Standard Electronic Module Radar Life Cycle Cost Comparison. (U)

DESCRIPTIVE NOTE: Final rept. 1 Jun 78-15 Jan 79,
APR 79 125P Cork,Thomas R. :
CONTRACT: F33615-78-C-1508
PROJ: 6096
TASK: 42
MONITOR: AFAL TR-79-1025

UNCLASSIFIED REPORT

DESCRIPTORS: *Modules(Electronics), *Life cycle costs, Cost analysis, Meteorological radar, Avionics, Standardization, Joint military activities, Solid state electronics, Cost estimat (U)
IDENTIFIERS: AN/APQ-122, PE62204F, WUAFAL60964204 (U)

The report presents a life cycle cost (LCC) analysis of an airborne weather radar system functionally similar to the Standard Electronic Module Radar (SEMR) and compares the LCC estimates for this system to previously developed LCC estimates for the SEMR. The SEMR has been designed, fabricated and tested as a demonstration of the concepts of the TRI-service Standard Electronic Module program. A previous study analyzed the LCC characteristics of the SEMR and developed LCC estimates for specific implementation alternatives. The APQ-122V(5) radar design was selected for LCC comparison as a representative example of solid state systems composed of custom subassemblies. The LCC analysis of a SEMR-equivalent of APQ-122 system was conducted using procedures and assumptions which were consistent with those used in the previous SEMR LCC study. Results presented in this report include a comparison of baseline LCC totals and subtotals, a comparison of the sensitivity of the two sets of LCC estimates to operational parameters, and an analysis of how the critical assumptions used in developing the SEMR equivalent APQ-122 LCC estimates affect the baseline comparison. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A071 068 13/6 15/5

ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY ABERDEEN PROVING GROUND MD

A Comparison of Maintenance Costs and RAM Characteristics of New and Overhauled M35A2 2-1/2 Ton Trucks. (U)

DESCRIPTIVE NOTE: Technical rept.,
JAN 79 48P Bell,Raymond :Miocuski, Robert :Belbot,Edward :
REPT. NO. AMSAA-TR-251
PROJ: 1R765706M541

UNCLASSIFIED REPORT

DESCRIPTORS: *Trucks, *Maintenance, Cost analysis, Performance(Engineering), Reliability, Maintainability, Comparison, Statistical analysis, Replacement (U)
IDENTIFIERS: M-35 trucks, M-35A2 trucks, 2-1/2-Ton trucks, Availability, Overhauled trucks, ASS41, PE65706A (U)

A comparison of the maintenance costs, and reliability, availability and maintainability (RAM) characteristics of new and overhauled 2-1/2 ton trucks is presented. This comparison was based on the performance of 259 new and 252 overhauled M35A2 2-1/2 ton trucks operated by the 9th Infantry Division, Ft. Lewis, Washington, over a four year period. The 511 vehicles evaluated in this study accumulated a total of 2.7 million miles with the individual new and overhauled vehicles accumulating mileage histories up to 19,000 and 11,000 miles, respectively. (Author) (U)

UNCLASSIFIED

CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A070 937 5/9

TECHNION - ISRAEL INST OF TECH HAIFA FACULTY OF INDUSTRIAL AND MANAGEMENT ENGINEERING

Interpretations of Task Difficulty in Terms of Resources: Efficiency, Load, Demand, and Cost Composition. (U)

DESCRIPTIVE NOTE: Technical rept.,
NOV 78 46P Navon,David ;Gopher,Daniel ;
CONTRACT: AFOSR-78-3131
PROJ: 2313
TASK: A2
MONITOR: AFOSR,AFOSR 79-0828,78-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Job analysis, Processing, Performance(Human), Tracking, Resources, Allocations, Time dependence, Efficiency, Cost effectiveness, Theory, Test construction(Psychology), Israel (U)
IDENTIFIERS: Workloads, Task analysis, Difficulty, Pursuit tracing, PE61102F, WUAFOSR2313A2 (U)

The effect of task difficulty on performance can be conceptualized within a theory which posits that performance depends on the use of resources from a single pool. When the difficulty of a task is said to increase it may mean either that resources invested in it can now do less (i.e., a decrease in efficiency), or are now required to do more (i.e., an increase in load), or have now less time to do it (i.e., a stricter limit on processing duration). Either way, difficulty should most often interact with resource investment in such a way that effects of resource investment on quality or speed of performance are more pronounced the easier the task. If the processing system is viewed as comprised of a number of mechanisms each having its own capacity, which may be considered as a separate resource, then a difficulty manipulation may affect differentially the use of each of those capacities. If in a dual-task situation manipulation of the difficulty of one task affects the use of a mechanism which is not required by the other task, processing of the latter may remain intact under some circumstances. (U)

AD-A070 937 UNCLASSIFIED

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CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A070 629 14/2 5/1 14/1

DYNAMIC SCIENCES INTERNATIONAL INC SEPULVEDA CA

Test Program Set Cost Algorithm. (U)

DESCRIPTIVE NOTE: Final rept. 21 Sep 77-Apr 78.
MAY 79 69P Zingg,D. James ;Robertson, Al V. ;McIntyre,Dave ;
CONTRACT: DAAB07-77-C-2727
PROJ: 1L762779AH62
TASK: 01
MONITOR: CDRADCOM 77-2727-F-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Test equipment, *Life cycle costs, Automatic, Test sets, Algorithms, Cost analysis, Learning curves, Test methods, Management engineering, Computer programs (U)
IDENTIFIERS: *TPS(Test Program Sets), Test management, Testability, WU011, ASH62, pe62779a (U)

The Test Program Set Cost Algorithm provides a methodology for identifying and quantifying the funding costs of major tasks in Test Program Sets (TPS's) development. Areas that are addressed by the study include the learning curve effect, impact of ATE maturity, impact of UUT (Unit Under Test) Testability, effect of design guides on development and life-cycle costs, management-controlled cost factors, utilization of Automatic Test Program Generation (ATPG), development costs vs. life-cycle costs, fault insertion and customer 'sell-off', and commercial vs. military support. The basic algorithm deals with the analysis, coding, checkout and sell-off of a test program set but other factors such as overhead support, interface device design, ATE compatibility, etc., are discussed. The application and usage of the algorithm should provide a valuable estimating tool to assess costs associated with Test Program Set development. (Author) (U)

AD-A070 629 UNCLASSIFIED ZOMO7

AD-A070 092 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CA

Decision Criteria for Cost-Plus-Award-Fee Contracts in Major Systems Acquisitions. (U)

DESCRIPTIVE NOTE: Master's thesis,
MAR 79 66P Jenkins,Gwilym Howard . Jr;

UNCLASSIFIED REPORT

DESCRIPTORS: *Contract administration, *Costs, Management planning and control, Decision making, Allocations, Contracts, Risk, Weapon systems, Military procurement, Management information systems, Acquisition, Theses (U)
IDENTIFIERS: Cost plus award fee contracts, Organization theory, Project Management (U)

The Cost-Plus-Award-Fee contract has useful application in Major Systems Acquisition during the full-scale development phase. This thesis examines the Cost-Plus-Award-Fee contract with Leavitt's Organizational Theory model which identifies goals, technology, people, structure, and environment as factors for analysis. It further investigates cost reimbursement contract types versus technical risk for identification of those criteria, which best accomodate application of the CPAF contract in major systems acquisition. This thesis concludes that the CPAF contract can be viewed as an informal management information system to enhance project control. It summarizes basic strengths and weaknesses of the CPAF contract in major systems acquisition. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A070 037 5/9 5/1

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO FL

A Cost Management Control Procedure for Initial Training in Surface Ship Acquisition Programs. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 79 116P Nutter,Roger V. :Cordell, Curtis C. :Heidt,Edward A. :
REPT. NO. TAEG-68

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval training, *Cost analysis, *Management planning and control, *Management training, Decision making, Cost estimates, Education, Case studies, Economic analysis, Ships, Military training, Cost models (U)

This is the second of two reports addressing the alternatives available for the development of Navy initial training courses: i.e., contract, Navy, or Navy/contractor developed. The first, TAEG Technical Memorandum 77-5, Precommissioning Training, July 1977, presented a technique for estimating the cost of Navy developed initial training courses and recommended case studies of a representative sample of surface ship initial training programs to further explore the available alternatives. Based on this recommendation, five major acquisition programs were selected for study. Results of these studies indicated the need for a standard procedure for maintaining and disseminating historical cost and management of initial training data. As a result of the nine training device course programs sampled, a computer based cost management control procedure was developed. The procedure is designed to assist program managers in selecting the most efficient initial training alternative, preparing initial budgetary estimates, and performing contractor cost proposal evaluations. Validation and refinement of the procedure is required. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 20MO7

AD-A070 020 7/3 7/1 5/3

CALLERY CHEMICAL CO PA

Design of a Facility to Implement a Low Cost Process for Production of NHC. (U)

DESCRIPTIVE NOTE: Final technical rept. 16 Nov 76-31 Oct 77.
MAY 79 317P
REPT. NO. CCC-79-66
CONTRACT: DAAK40-76-C-1256

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Carboranes, *Industrial plants, *Chemical engineering, Production engineering, Industrial production, Experimental design, Hexyl radicals, Pilot plants, Scale models, Safety, Pyrolysis, Low costs (U)

This report and its referenced documentation provide the detailed engineering design of a facility for the production of 30,000 lbs/yr of n-hexyl carborane (NHC). The design criteria and design basis incorporate bench scale and small scale production data and experience to provide a safe, low cost process for conversion of diborane to decaborane by a unique continuous pyrolysis process. Decaborane is subsequently converted to NHC by batch solution processing. Process description, process flow diagrams and engineering flow diagrams fully describe the production facility. Process hazards are discussed and process safety features described. Principal hazards are borane toxicity and fire hazard of flammable materials and solvents. Design implementation is outlined with identification of equipment and support facilities for process demonstration, demonstration and support of low rate production and ultimate expansion to full scale design capacity. Detailed engineering drawings, specifications, calculations and other design documents are listed. Listed documents are maintained for record and for retrieval and usage by interested parties. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A069 973 5/1 14/1 1/3

ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT NEUILLY-SUR-SEINE (FRANCE)

Methodology for Control of Life Cycle Costs for Avionics Systems. (U)

DESCRIPTIVE NOTE: Lecture series.
APR 79 154P
REPT. NO. AGARD-LS-100

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at a Lecture Series under the sponsorship of the Avionics Panel and the Consultant and Exchange Programme of AGARD. Bonn, Germany, 5 R. 7-8 May 79 and Athens, Greece 10-11 May 79.
DESCRIPTORS: *Life cycle costs, *Management planning and control, *Avionics, Cost analysis, Methodology, Cost estimates, Parametric analysis, Systems engineering, Reliability(Electronics), Military aircraft, Military procurement, Logistics support, Trade off analyses, Risk (U)
IDENTIFIERS: NATO furnished (U)

Contents: Introduction to Methodology for Control of Life Cycle Costs for Avionics Systems: Life Cycle Cost Analysis -- Concepts and Procedures. The Development and Implementation of Life Cycle Cost Methodology: Recent Experience in the Development and Application of Life Cycle Cost Models: and Problems in the Investigation of Reliability-associated Life-cycle Costs of Military Airborne Systems. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A069 968 6/8

ARMY NATICK RESEARCH AND DEVELOPMENT COMMAND MA FOOD ENGINEERING LAB

Cost of Irradiating Bacon and the Associated Energy Savings. (U)

DESCRIPTIVE NOTE: Technical rept.,
MAR 79 12P Brynjolfsson,Ari :
REPT. NO. NATICK/FEL-89
PROJ: 1L162724AH99
TASK: DA
MONITOR: NATICK TR-79/022

UNCLASSIFIED REPORT

DESCRIPTORS: *Irradiated food, *Cost analysis, *Bacon, Sterilization, Freezing, Nitrites, Energy conservation, Test and evaluation, Acceptance tests (U)
IDENTIFIERS: PE62724A, ASH99, WU010 (U)

This paper is about costs and energy savings obtained by irradiating bacon. Sterilized by irradiation (25 kGy), bacon without added nitrite does not contain nitrosamines and does not constitute botulism hazard. If bacon is irradiation sterilized while refrigerated, the cost of irradiation is about $0.08/lb; if irradiation-sterilized while frozen, the costs of irradiation and freezing would be about $0.03/lb. Substerilizing irradiation doses of 7.5 to 15 kGy would give about 80 days extension of bacon stored and distributed refrigerated. The irradiation costs, in this case, would be about $0.07/lb. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A069 791 5/1 5/9

CONSAD RESEARCH CORP PITTSBURGH PA

Cost Analysis of Air Force On-the-Job Training: Development and Demonstration of a Methodology. (U)

DESCRIPTIVE NOTE: Final rept. 20 Aug 76-25 Jul 78.
MAY 79 231P Eisele,Charles R. :Bell, Thomas R. :Laidlaw,Charles D. :
CONTRACT: F33615-76-C-0063
PROJ: ILIR
TASK: 00
MONITOR: AFHRL TR-78-88

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Air Force training, *Job training, Cost estimates, Systems analysis, Personnel management, Careers, Reliability (U)
IDENTIFIERS: WUAFHRLILIRC052, PE61101F (U)

The Air Force on-the-job training (OJT) cost estimating methodology documented in this report is applicable to formal airman upgrade training to the 3, 5, and 7 skill levels. The methodology can be used to provide reasonable cost estimates for budgeting and planning purposes at various command levels and for various time intervals. Design of the methodology has emphasized use of existing data bases to derive direct OJT costs. Cost elements which have been quantified include program overhead costs at all command levels, personnel time cost for actual training and supervision, and program support costs such as for career development courses and the Extension Course Institute. Recommendations have been made concerning equipment and opportunity costs. The methodology employs additive cost factors which are sensitive to OJT cost variation among career fields and among organizations at each command level. Periodic factor reestimation will insure cost factor currency allowing OJT cost forecasts driven by forecasted OJT trainee-month volumes. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A069 763 5/2 14/1

ILLINOIS UNIV AT URBANA-CHAMPAIGN COORDINATED SCIENCE LAB

An Analysis of Storage, Retrieval, and Update Costs for Data Bases which are Tables of Entries. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 78 63P Warner,Mark Kenneth :
REPT. NO. R-816, UILU-ENG-78-2209
CONTRACT: DAAB07-72-C-0259, NSF-ENG-75-20864

UNCLASSIFIED REPORT

DESCRIPTORS: *Data management, *Data storage systems, Information retrieval, Cost analysis, Tables(Data), Information theory, Data bases, Computer applications, Machine coding, Theses (U)
IDENTIFIERS: Trees(Mathematics) (U)

The performance of retrieval systems for tables of entries is investigated. The system costs considered are the cost of storing a representation of a table, the cost of retrieving an individual table entry, and the cost of updating the table by adding or deleting the last entry. Several systems are presented and their costs are analyzed. For each type of cost a lower bound is derived, though in some cases it is for a restricted situation (such as for bounded table size). It is found for the problem presented that the actual storage cost and the lower bound on storage cost are both on the order of lw+lg(l), where l is the number of entries in the table and w is the entry size. The bounds on both retrieval cost and update cost are found to be on the order of w, while the actual costs of the best systems presented are on the order of w+lg(l). (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A069 527 16/4.1 5/1 15/5

ADMINISTRATIVE SCIENCES CORP FALLS CHURCH VA

Navy Air-Launched Missile Operating and Support Cost Estimating Model. (U)

APR 79 192P Heilig,Paul T. :
REPT. NO. ASC-R-118
CONTRACT: N00014-77-C-0180

UNCLASSIFIED REPORT

DESCRIPTORS: *Air to air missiles, *Cost models, Cost estimates, Logistics support, Maintenance, Naval training, Naval equipment (U)

The Cost Analysis Improvement Group (CAIG), which is responsible for policy and guidance for cost analysis in the Department of Defense, issued a memorandum which contained an operating and support cost element structure (CES) for tactical air-launched missiles, to be used in all Defense System Acquisition Review Council reviews and other missile cost analyses. Accordingly, the Resource Analysis Group (Op-96D), which is responsible for independent cost analysis within the Navy, tasked Administrative Sciences Corporation to undertake a study. The CES which was developed contains sixteen cost elements which define and encompass the same activities described in the CAIG memorandum. Each cost element is discussed in detail in the body of this report. All pertinent data which was collected during the study is included, as well as examples of Navy documents which can be used for cost estimating in the future. Each source is identified by a point of contact and a DOD telephone number. All explanatory variables which were employed in the study, whether used in a cost-estimating relationship or not, are also included. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A069 389 5/1 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OH

Design to Cost (DTC) Implementation Guidance. (U)

JAN 78 21P Menker,Lavern J. ;Mills, Brian S. ;

UNCLASSIFIED REPORT

DESCRIPTORS: •Design to cost, Contracts, Life cycle costs, Logistics management (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A069 388 5/1 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OH

Life Cycle Cost Management Guidance for Program Managers. (U)

DESCRIPTIVE NOTE: 4TH EDITION.
JUL 78 34P Gibson,John D. S. ;Mills, Brian S. ;

UNCLASSIFIED REPORT

DESCRIPTORS: •Life cycle costs, Management, Logistics management (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0%07

AD-A069 212 5/3 12/2

HARVARD UNIV CAMBRIDGE MASS

Pareto Efficiency with Costly Transfers. (U)

DESCRIPTIVE NOTE: Technical rept..
MAY 79 20P Arrow ,Kenneth J. :
REPT. NO. TR-33
CONTRACT: N00014-76-C-0135

UNCLASSIFIED REPORT

DESCRIPTORS: *Economic models, Efficiency, Distribution, Resources, Allocations, Decision making, Costs, Transfer (U)
IDENTIFIERS: *Pareto allocations, wunr47004 (U)

The concept of Pareto efficiency, as ordinarily applied, implies that costless redistributive transfers are possible. This paper generalizes the concept to a simple case where transfers of a given good involve losses measurable in that good. The Pareto efficiency of a given allocation then depends on the initial distribution endowments. For a given allocation, then, we can ask: (1) whether there exists any endowment allocation for which the given allocation is Pareto efficient; and (2) if there is, what is the class of endowment allocations for which it is efficient. These questions are answered in the paper. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0%07

AD-A069 120 5/1 13/10

KAITZ (EDWARD M) AND ASSOCIATES INC WASHINGTON DC

Forms of Ownership and a Cost-Effective Shipbuilding Industry. (U)

DESCRIPTIVE NOTE: Final rept. Sep 78-May 79.
MAY 79 106P
REPT. NO. EMK-79-1
CONTRACT: N00014-78-C-0569

UNCLASSIFIED REPORT

DESCRIPTORS: *Shipbuilding, *Shipyards, *Management, Cost effectiveness, Industries, Regulations, Public utilities, Naval vessels, Costs, Japan, Western Europe, United States, Government(Foreign), Finance, Efficiency (U)
IDENTIFIERS: Nationalization, Private industry, Ownership (U)

This study reviews and analyzes the potential impact on shipyard efficiency of the three modes of ownership possible in the United States: a fully nationalized shipbuilding industry, an industry organized as a public utility, and a privately owned and conventionally financed industry. Particular emphasis was given to analysis of the potential for creating a shipbuilding public utility since it was initially believed that the scope and content of the regulations imposed on a utility might help to induce a more cost-effective industry. This, indeed, is the main concern of this project--the least cost construction of naval combatants. Based upon their analysis, the writers believe that changing the mode of ownership of the industry or its capital structure will not, by itself, solve the underlying problem. Their analysis suggests that cost control is a management function distinct and apart from the ownership function, and should be so treated. In this regard, their analysis now suggests that either nationalizing the industry or creating a shipbuilding utility as opposed to the continuing private ownership of the industry may serve to increase shipbuilding costs both in the short- and long-term. (U)

AD-A068 993 5/3 12/1

TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES

Transforms and Approximations in Cost and Production Function Relations. (U)

DESCRIPTIVE NOTE: Research rept.,
MAR 79 25P Charnes,A. ;Cooper,W. W. ;
Schinnar,A. P. ;
REPT. NO. CCS-339
CONTRACT: N00014-75-C-0616, N00014-75-C-0569

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Sponsored in part by N00014-75-C-0932 and NSF-SOC76-15876.
DESCRIPTORS: *Economic analysis, Cost analysis, Decision making, Efficiency, Fourier transformation, Laplace transformation, Approximation(Mathematics), Production (U)
IDENTIFIERS: *Production functions, *Economic models, Duality theory, NR047021 (U)

Process analysis and related approaches to the study of energy economics have made extensive use of Shephard's lemma as well as other aspects of the Shephard-Samuelson transformation theories. A major problem is shown to be present in the use of these transforms to go from cost functions to production possibility sets in that the latter will always be unbounded above. Capacity conditions, which are especially important in energy policy studies, are therefore not adequately addressed. Troubles also occur in the use of translog approximations because of the functional forms which can result when the Shephard-Samuelson transformations are employed. Nondifferentiability is not the primary difficulty with the translog approximations as is shown with an infinitely differentiable function. Relations between other parts of mathematical transform theory, e.g. as exhibited in Laplace transforms, are also indicated along with possible extensions that might be made in the Shephard-Samuelson 'duality' theorems. (Author) (U)

AD-A068 721 1/3 15/5 14/1

ROCKWELL INTERNATIONAL EL SEGUNDO CA LOS ANGELES DIV

Aircraft Transparency Failure and Logistical Cost Analysis. Volume III. Transparency Analysis. (U)

DESCRIPTIVE NOTE: Final rept. Jun 77-Sep 78.
DEC 78 215P Brown,S. S. ;
REPT. NO. NA-78-604-VOL-3
CONTRACT: F33615-77-C-3060
PROJ: 2402
TASK: 03
MONITOR: AFFDL TR-78-153-VOL-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A068 719.
DESCRIPTORS: *Aircraft canopies, *Windshields, *Windows, *Transparent panels, *Life cycle costs, Aircraft maintenance, Logistics support, Repair, Replacement, Trade off analyses, Maintainability, Reliability, Cost effectiveness, Data bases, Regression analysis (U)
IDENTIFIERS: PE62201F, WUAFFDL24020302 (U)

The Rockwell Maintenance Analysis Model (MAM) program was used to extract cost data from the K051 LSC system, and maintenance failure modes from the AFM 66-1 maintenance data collection system in order to conduct a detailed logistical cost and failure analysis. The cost and maintenance frequencies were utilized to pinpoint the most productive areas for life cycle cost reduction. A number of potential improvement studies were identified in the initial phase of this program. However, the effort required to research, analyze, and assemble these data, limited the development to five design improvement studies. These factors, coupled with the relative importance of the aircraft in the Air Force inventory, initiated the search for concepts that would cure or substantially reduce the failures identified in the above noted MAM's process. The verification of the feasibility of the proposed changes was accomplished by trading the projected 10-year life cycle cost of the existing concept to the costs of the development. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A068 720 1/3 15/5 14/1

ROCKWELL INTERNATIONAL EL SEGUNDO CA LOS ANGELES DIV

Aircraft Transparency Failure and Logistical Cost Analysis. Volume II. Design Data and Maintenance Procedures. (U)

DESCRIPTIVE NOTE: Final rept. Jun 77-Sep 78, DEC 78 152P Brown,S. S. ;
REPT. NO. NA-78-604-VOL-2
CONTRACT: F33615-77-C-3060
PROJ: 2402
TASK: 03
MONITOR: AFFDL TR-78-153-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A068 721.
DESCRIPTORS: *Aircraft canopies, *Windshields, *Windows, *Transparent panels, *Life cycle costs, Aircraft maintenance, Logistics support, Repair, Replacement, Trade off analyses, Maintainability, Reliability, Cost effectiveness, Data bases (U)
IDENTIFIERS: PE62201F, WUAFFDL24020302 (U)

The aircraft transparency and logistical cost analysis program is aimed at reducing the logistical costs associated with transparency systems for 20 of the current Air Force inventory aircraft. The approach for achieving this goal was to collect all information relating to the physical and performance characteristics and maintenance historical data of the selected study aircraft. These data provide the means of initiating search for design improvement and cost reduction studies. In order to assess the maintenance and logistical support activity as currently being practiced at the Air Logistics Centers and Air Force Operational Bases, both maintenance and installation procedures, as well as qualification and testing procedures, for transparency components and support systems were collected. These data were assembled to determine the support structure level of effort and costs to identify those procedures and practices where cost reduction may be achieved. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A068 719 1/3 15/5 14/1

ROCKWELL INTERNATIONAL EL SEGUNDO CA LOS ANGELES DIV

Aircraft Transparency Failure and Logistical Cost Analysis. Volume I. Program Summary. (U)

DESCRIPTIVE NOTE: Final rept. Jun 77-Sep 78, DEC 78 68P Brown,S. S. ;
REPT. NO. NA-78-604-VOL-1
CONTRACT: F33615-77-C-3060
PROJ: 2402
TASK: 03
MONITOR: AFFDL TR-78-153-VOL-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A068 720.
DESCRIPTORS: *Aircraft canopies, *Windshields, *Windows, *Transparent panels, *Life cycle costs, Aircraft maintenance, Logistics support, Repair, Replacement, Trade off analyses, Maintainability, Reliability, Cost effectiveness, Data bases (U)
IDENTIFIERS: PE62201F, WUAFFDL24020302 (U)

The concern for increasing costs in the maintenance of transparency systems has prompted the Air Force Flight Dynamics Laboratory to sponsor this study contract. The objective of this study is to identify the high-cost, high-maintenance transparency components, identify cause of failures, and recommend corrective programs to reduce cost of ownership to the Air Force Logistics Command. The study involved the review of 20 selected aircraft in current Air Force inventory to establish an extensive data base relating to transparency maintenance activity and associated logistical support costs. During this study, a collection of detailed design characteristics, methods of construction, test and qualification, and costing information was assembled. From these data, the basis for design improvements were determined. The approach used in the identification of candidate improvements was to focus on the high-cost contributors to maintenance and repair. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A068 699 1/3 15/5 9/2

DAYTON UNIV OHIO RESEARCH INST

Predicted Crack Repair Costs for Aircraft Structures. (U)

DESCRIPTIVE NOTE: Final technical rept. Jun 77-Sep 78.
NOV 78 83P Berens,Alan P. ;
CONTRACT: F33615-77-C-0800
MONITOR: ASD TR-78-39

UNCLASSIFIED REPORT

DESCRIPTORS: *Airframes, *Cracking(Fracturing), *Repair, *Computer programs, Cost analysis, Mathematical prediction, Crack propagation, Operational readiness, User needs, Specifications, Air Force operations, Data acquisition, Maintenance management, Flight testing (U)

This report presents the results of a study designed to (1) prepare a computer program for use in predicting expected repair costs of the cracks which develop during the operational usage of a structure; (2) to provide a document which describes the use of the computer program and guides a potential user in the specification of the required input; and (3) to use data which is reasonably representative of Air Force experience as input for use in determining the sensitivity of expected maintenance costs to variations in input. Results are provided which compare expected costs for changes in inspection intervals, quality of inspection, quality of repair, operational usage, and equivalent initial flaw size distributions. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A068 577 6/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Cost-Performance Relationships for Use with the Uniform Chart of Accounts for Militart Medical Treatment Facilities. (U)

DESCRIPTIVE NOTE: Master's thesis.
MAR 79 135P Olson,Steven Duane ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost effectiveness, *Health care facilities, *Military medicine, Medical services, Department of Defense, Accounting, Output, Measurement, Costs, Cost analysis, Hospitals, Theses (U)

This study was an attempt to identify those attributes characteristic of a suitable measure, suggest cost-performance relationships which are capable of being supported by the uniform chart of accounts, and test these relationships with data from the ten military sites selected to test the chart of accounts. Based upon the analysis, a recommendation as to the suitability of the relationships as a basis for comparisons was made. Finally, recommendations which may improve the utility of the uniform chart of accounts were also offered. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A068 537 15/5 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

A Lease versus Buy Decision Methodology for the Army: A Proposal. (U)

DESCRIPTIVE NOTE: Master's thesis.
MAR 79 85P Clifton,Herbert Charles :

UNCLASSIFIED REPORT

DESCRIPTORS: *Army procurement, *Leasing, *Decision making, Cost analysis, Economics, Methodology, Mathematical models, Theses (U)
IDENTIFIERS: Cost benefit analysis (U)

The Army currently does not have a prescribed uniform methodology to determine the lease versus buy financing of items procured from private industry. Also, when lease versus buy decisions have to be made, the decision is often a separate one after the system has been chosen by a cost-benefit analysis. Discount rate, salvage value, tax rates, depreciation, and risk are all elements that directly affect the lease versus buy determination in both industry and government transactions. However, total agreement as to the application of these elements to the final decision is lacking within the Army. Based on the literature available, a lease versus buy methodology is determined. Also, it is shown how this method should be part of a one setp cost-benefit analysis instead of a two step method to be used by the Army when leasing is a viable financing alternative. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A068 268 17/7 14/1

ARINC RESEARCH CORP ANNAPOLIS MD

Avionics Cost Development For Use of Loran-C Navigation Systems By Low Performance General-Aviation Aircraft. (U)

DESCRIPTIVE NOTE: Final rept..
APR 79 25P Kowalski,S. H. :
REPT. NO. 1326-01-8-1906
CONTRACT: DOT-FA76WA-3788

UNCLASSIFIED REPORT

DESCRIPTORS: *LORAN, *Cost effectiveness, Avionics, Cost estimates, Methodology, Global positioning system, Systems engineering (U)
IDENTIFIERS: *LORAN-C (U)

This avionics cost study of the Long-Range Navigation (LORAN-C) system used by low-performance general-aviation aircraft, performed for the Federal Aviation Administration (FAA) Office of Systems Engineering Management (OSEM), was based on a uniform approach to cost estimating with the assistance of a pricing model. The system evaluated is the Teledyne TDL-711 LORAN Micro-Navigator, with appropriate design and packaging modifications to meet the less stringent environmental and packaging requirements of general aviation. The LORAN-C system in its airborne configuration requires a receiver, a control and display unit, and an antenna with a built-in coupler. The expected costs of the avionics required by single- and light-twin-engine aircraft were developed by using a parametric cost-estimating model. These costs, shown in Table S-1, are in 1977 dollars, without inflation, and are based on annual production quantities of 1,000 units. Development costs were amortized over a 3,000-unit production quantity. The 1977 dollars were used to facilitate comparisor with other cost results of alternative navigation systems previously evaluated by ARINC Research for the FAA. (Author) (U)

AD-A068 175 5/1 9/2 1/3

ADMINISTRATIVE SCIENCES CORP FALLS CHURCH VA

Naval Aircraft Operating and Support Cost-Estimating Model - FY77 Revision. (U)

FEB 79 200P
REPT. NO. ASC-R-120
CONTRACT: N00014-77-C-0180

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Revision of Rept. no. ASC-R-116 dated Mar 78, AD-A053 180.
DESCRIPTORS: *Cost estimates, *Naval aircraft, Computerized simulation, Computer program documentation, Life cycle costs, Parametric analysis, Regression analysis, Data bases, Instruction manuals, Management information systems, Flight crews, Maintenance, Logistics support, Airframes (U)

In fiscal 1974, Administrative Science Corp. developed a parametric cost-estimating model which has been updated and documented several times and used to support numerous Defense Systems Acquisition Review Council (DSARC) reviews as well as other cost reviews. This report provides a detailed documentation of the cost-estimating relationships (CER's) developed from FY77 data. In addition, the report has been significantly enhanced in order to serve as a handbook and training aid for Op-96D aircraft analysts. For each cost element in the structure, this report provides: (1) a definition; (2) discussion of the definition and other aspects of now, where, and why these costs are incurred, points of contact including organizational codes and telephone numbers, historical data, and sources for planning data; (3) cost-estimating relationship, including all computational procedures, regression statistics for the CER, and the data base, (4) an alternative CER (in many cases) with the same detail as above; and, (5) an example calculation. (U)

AD-A067 997 11/6 5/3

ROCKWELL INTERNATIONAL EL SEGUNDO CA LOS ANGELES DIV

Lower Cost by Substituting Steel for Titanium. (U)

DESCRIPTIVE NOTE: Final rept. Aug 75-Oct 78.
NOV 78 447P Parker,D. E. ;Bennett,G. V. ;Robelloto,R. P. ;
REPT. NO. RI/LAD/NA-78-415
CONTRACT: F33615-75-C-3109
MONITOR: AFFDL TR-78-186

UNCLASSIFIED REPORT

DESCRIPTORS: *Steel, *Titanium alloys, *Industrial production, Cost analysis, Airframes, Fabrication, Technology transfer, Heat treatment, Machining, Fracture(Mechanics), Stress corrosion, Tolerances(Mechanics), Weight reduction (U)
IDENTIFIERS: Titanium alloy 6Al 4V (U)

This program was part of an overall program to develop a high-strength steel, designated AF1410, which compares favorably with titanium in strength/weight efficiency and fatigue characteristics and yet can be produced at a significant reduction in cost. The Rockwell portion of the overall program consisted of selecting existing candidate designs, developing steel substitute designs, and comparing their estimated cost with their titanium counterparts. It also consisted of development of heat-treat processes to optimize machinability and of a comprehensive materials test program. Finally, the program included the machining of a full-scale test article from a forging provided by the Air Force from another portion of the program, and the fatigue, damage tolerance, and static residual strength testing of the full-scale article. In addition, validation of the production cost reduction was a prime objective. During testing, cracks developed which were subsequently analyzed as being the result of excessive deflections. An in-test repair was accomplished, and the testing was successfully completed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A067 949 5/1 15/5

NOTRE DAME UNIV IN DEPT OF MARKETING

Transportation Costs as a Consideration in Air Force Contracts. (U)

DESCRIPTIVE NOTE: Final rept. 15 Aug 78-30 Apr 79.
MAR 79 161P Stock,James R. ;
CONTRACT: F33615-78-C-5200

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Transportation, *Contract administration, *Cost analysis, Methodology, Air force equipment, Regulations, Costs, Air force procurement, Standardization (U)
IDENTIFIERS: FOB origin costs, FOB destination costs (U)

Basically, the transportation decision coupled with the service constraints (priority and sensitivity) of the item (s) being transported. With this understanding, the scope of the research study was determined to include: the identification of relevant transportation costs involved in Government-sponsored and/or contractor-sponsored carriage; the development of a methodology for identifying and evaluating F.O.B. origin versus F.O.B. destination alternatives; and to determine the feasibility of applying economic criteria to the transportation decision. Assuming various environments to test the sensitivity of the estimate of the cost components of the F.O.B. terms of shipment decision, several conclusions were reached: (1) A significant number of Air Force contracts could be awarded F.O.B. origin in lieu of F.O.B. destination; (2) The basic cost components which must be considered when comparing F.O.B. origin and F.O.B. destination terms of shipment include carrier rates, transportation administration expense, claims administration expense, contractor surcharge and destination change (ASI) costs; and (3) Significant dollar savings might be involved in utilizing F.O.B. origin terms of shipment in lieu of F.O.B. destination terms. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A067 882 9/2 14/1 9/3

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA NIGHT VISION AND ELECTRO-OPTICS LABS

Life Cycle Cost Analysis Model. Part I. The Mathematical Model. (U)

DESCRIPTIVE NOTE: Research and development technical rept.,
MAR 79 49P Sirota,David B. ;Morrow, Walter B. , Jr.;Skelton,Jerry P. ;Sijgers, Henry K. ;
REPT. NO. DELNV-TR-0004

UNCLASSIFIED REPORT

DESCRIPTORS: *Computerized simulation *Life cycle costs, *Electronic equipment, Cost analysis, Economic analysis, Computer programs, Investments, Electronics, Electrooptics, Infrared equipment, Night sights, Light emitting diodes, Arrays, Remotely piloted vehicles (U)
IDENTIFIERS: CDC 6600 computers, AN/VSG-2, AN/TAS-6 (U)

PART I of this report describes the development of a mathematical model for the life cycle cost analysis of electronics, electro-optical, optical, and opto-mechanical systems. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A067 691 13/2 5/3 9/2

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Systems Approach to Life-Cycle Design of Pavements. Volume II. LIFE2 System Documentation. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 79 458P Lindow,Edward S. ;
REPT. NO. CERL-TR-M-253-VOL-2
PROJ: 4A763734DT06
TASK: 01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A064 698.
DESCRIPTORS: *Pavements, *Life cycle costs, *Systems approach, *Computer programs, Maintenance management, Runways, Civil engineering, Flow charting, Construction, Army Corps of Engineers, Roads, Subroutines (U)
IDENTIFIERS: LIFE2 Automated System, WU001, AST08, PE63734A (U)

This report is the second of a three volume final report which documents an automated system, LIFE2, for analyzing pavement designs and maintenance and repair strategies based on life-cycle costs. LIFE2 models existing Corps of Engineers criteria for designing both rigid and flexible pavements for airfields, roads, and streets. The program also includes analytical procedures for evaluating earthwork, drainage, and frost protection requirements in addition to maintenance costs. The resulting combinations of design schemes and maintenance strategies are ranked by total cost over the design life of the pavement. Volume I is the LIFE2 User Manual, Volume II is the LIFE2 System Documentation, and Volume III is the LIFE2 Program Listing. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A067 667 9/5 14/1 14/4

NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA

Low Cost Components: Selection and Acquisition of Microelectronic Devices. (U)

DESCRIPTIVE NOTE: Final rept. May 77-Sep 78.
FEB 79 50P Townsend,J. H. ;
REPT. NO. NOSC/TD-223
MONITOR: GIDEP E150-2362

UNCLASSIFIED REPORT

DESCRIPTORS: *Microelectronics, *Microcircuits, Cost effectiveness, Reliability(Electronics), Low costs, Naval procurement (U)
IDENTIFIERS: TELCAM-2 Project (U)

Low Cost Components is an acquisition research project addressing microelectronic devices. The goal is to improve reliability and reduce costs associated with components, especially microcircuits. Microcircuits are high-lighted because they are subject to common problems with other component types plus the problems associated with a rapidly evolving technology. Guidance is provided for the selection and screening of microelectronic devices. The project implements findings and recommendations from the TELCAM II project, reported in Naval Electronics Laboratory Center (NELC) TR 1957. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A067 424 6/6

CORPS OF ENGINEERS WASHINGTON D C

Costs and Benefits of Aquatic Weed Control. (U)

APR 79 51P Gangstad,E. O. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Weed control, *Cost analysis, Aquatic weeds, Aquatic plants, Benefits, Economic analysis, Chemicals, Control, Problem solving, Biology (U)

In order to define the extent of the aquatic weed problem in terms of economic costs and benefits an attempt is made to develop order of magnitude estimates for specific damage caused by weeds in certain settings. These estimates would give a better perspective of the problem and provide guidance to which method of control to use. The Corps of Engineers Aquatic Plant Control Program, initiated in 1899, was the first effort to control weeds by the U.S. Government. Waterhyacinth, alligatorweed, Eurasian watermilfoil and hydrilla are the primary damaging aquatic weeds. Mechanically chemical and biological weed control methods are currently being used. Benefit-cost analysis is the term given to studies by planners to assist in finding the best course of action from an economic viewpoint. It differs from routine decision-making by making use of quantitative evaluation, in monetary terms, of the goods and services expected (benefits) and the goods and services expended (costs). The benefit-cost ratio is the proportion of benefit to cost. For example, a benefit to cost ratio of 1.5:1.0 means that benefits are expected to be 150% of the cost. A B/C ratio of 1.0:1.0 means that this project will produce a rate of return equal to the benefit-cost evaluations. The higher the ratio the more justified the project should be. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A067 277 21/5 20/4

AIRESEARCH MFG CO OF ARIZONA PHOENIX

Alternate Subsonic Low-Cost Engine. (U)

DESCRIPTIVE NOTE: Final technical rept. 1 Apr 76-31 Dec 77,
MAY 78 168P Baerst,C. F. ;Sandborn,J. W. ;
REPT. NO. 76-212199(21)
CONTRACT: F33615-76-C-2063
PROJ: 3012
TASK: 08
MONITOR: AFAPL TR-78-31

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Turbojet engines, *Afterburners, *Subsonic characteristics, Augmentation, Low costs, Turbochargers, Production rate, Ramjet engines, Combustors, Air flow, Thrust augmentation, Static tests, Data acquisition, Test equipment (U)
IDENTIFIERS: WUAFAPL3020837 PE62203F (U)

This document presents the final report on the research and development of a turbojet derived from low-cost, high-production turbocharger components and an augmentor based on a low-cost, ramjet sudden-expansion burner. The engine, designated AiResearch ETJ131 Model 1030, is an afterburning derivative of the AiResearch ETJ131 engine. Changes to the basic ETJ131 included placing the combustor parallel to the engine center line, incorporating aerodynamic changes to accommodate the additional airflow required to achieve the thrust goal for the Model 1030, and adding an afterburner. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A067 218 8/9 18/3 8/7

ENGINEERING DECISION ANALYSIS CO INC IRVINE CA

Cost and Feasibility Evaluation for the Excavation of Large Hemispherical Cavities in Rainier Mesa. (U)

DESCRIPTIVE NOTE: Topical rept. Jan-Oct 78, OCT 78 206P Kipp,Thomas R. ;Kennedy, Robert P. ;
REPT. NO. EDAC-177-041.1R
CONTRACT: DNA001-78-C-0281
PROJ: J45HAXS
TASK: 'X311 '
MONITOR: DNA,SBIE 4723T,AD-E300 488

UNCLASSIFIED REPORT

DESCRIPTORS: *Mining engineering, *Excavation, *Engineering geology, Nevada, Structural Geology, Cavities, Hemispheres, Joints, Faults(Geology), Geologic formation, Cost estimates, Feasibility studies, Nuclear explosion testing, Underground explosions, Rock, Bolts (U)
IDENTIFIERS: Rainier Mesa, Nevada test site, PE62710H, WU01, WU02 (U)

In order to provide necessary facilities for the fielding of experiments in support of the underground nuclear testing program, there has been an increase in interest concerning the construction of large underground caverns in Rainier Mesa. As a result, a cost and feasibility program was commissioned to evaluate hemispherical cavities between 24.4 and 91.4 m (80 and 300 ft) in diameter. The rock support designs for the cavities are based upon the use of internally installed rockbolts for the smaller cavities and tendons installed from annular galleries for the larger chamber. The evaluation program included research into past experience pertaining to the excavation and support of large underground caverns, assessment of the geological conditions which exist in Rainier Mesa, preliminary design of the cavities and their rock support system based upon the geological setting, development of mining plans for the excavation of the caverns, and estimation of the cost and manpower schedule to complete the construction of each size chamber based upon the preliminary design (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A067 194 5/9 17/2

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix D. Military Personnel and Training Costs. (U)

JAN 79 38P
REPT. NO. TTO-ORT-032-79B-V3-AP-D

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Rept. no. TTO-ORT-032-75-V3-AP-D, AD-a022 062. Appendix D to AD-A055 147.
DESCRIPTORS: *Military training, *Tactical communications, *Military personnel, *Communication equipment, *Life cycle costs, *Joint military activities, Logistics support, Cost analysis, Tactical communications, Cost estimates, Tables(Data), Design to cost, Cost effectiveness, Retirement(Personnel), Learning curves, Standards, Economics (U)
IDENTIFIERS: Military retirement, TRI TAC Project (U)

The guidelines and methodology of Volume III outline the general problems of estimating total future acquistion and ownership costs of joint tactical communications. This appendix provides a methodology, appropriate cost tables, and a set of sample calculations that will enable the cost analyst to calculate the economic cost to DOD of selected types of military personnel. The appendix also provides information for those equations presented in Volume III that require annual or hourly military personnel and training costs. (Author) (U)

AD-A066 729 12/1 14/1

CORNELL UNIV ITHACA N Y SCHOOL OF OPERATIONS RESEARCH AND INDUSTRIAL ENGINEERING

The Value of the Non-Atomic Game Arising from a Rate-Setting Application and Related Problems. (U)

DESCRIPTIVE NOTE: Technical rept..
APR 78 75P Raanan,Joseph ;
REPT. NO. TR-372
CONTRACT: N00014-75-C-0678, NSF-MPS75-02024

UNCLASSIFIED REPORT

DESCRIPTORS: *Game theory, *Cost analysis, Allocations, Utilization, Telephone systems, Lyapunov functions (U)
IDENTIFIERS: Nonatomic games (U)

The work is motivated by the following problem: bulk-service telephone lines were installed at Cornell University, to be used for long-distance calls. The charges paid to the telephone company are mostly fixed monthly charges and are not usage-related. The problem is how to allocate these costs back to the users in a per call fasnion, and how to do it in a way that is fair and efficient. The problem was solved by using the value of the associated non-atomic game. To be able to do this, the theory of non-atomic games had to be extended by weakening certain differentiability requirements. This is done here: in addition a number of results about full-range game are obtained. Next the problem of non-atomic linear production games is studied. A number of results about the cores of such games are obtained, extending and strengthening similar results about finite linear production games. In addition, some results about the value of such games are established, and relationships between the core and the value are derived for a special case. (Author) (U)

AD-A066 583 5/1 14/1 15/5

ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA

The Application of Quantity Discounts in Army Procurements. (U)

DESCRIPTIVE NOTE: Final rept..
MAR 79 33P Zabel,Wayne V. ;Gajdalo, Steven ;
REPT. NO. APRO-706-1/IRO-254

UNCLASSIFIED REPORT

DESCRIPTORS: *Army procurement, Quantity, Acquisition, Costs, Reduction, Savings, Inventory (U)
IDENTIFIERS: Discounted costs, Quantity discount (U)

The Department of Defense (DOD) has directed the use of basic Economic Order Quantity (EOQ) principles in the acquisition of secondary items. One assumption of the EOQ model is that there is no control over acquisition price; yet, it has been established that the unit price of an item is not always independent of the quantity procured. The approach taken in this study included a review of the Quantity Discount (QD) program as implemented by the Air Force, and the development of a total variable cost equation to evaluate offers in response to a QD solicitation. A QD program in the Army is expected to result in reductions in both acquisition cost and long run administrative workload. A proposed QD program has been developed and it is recommended that a test be conducted at one or more Materiel Readiness Commands to determine the degree of success a full QD program can be expected to accomplish. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A066 557 5/3 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Discounting Theory and its Application in the Public Sector. (U)

DESCRIPTIVE NOTE: Master's thesis,
DEC 78 52P Bonna,Ralph Anthony :

UNCLASSIFIED REPORT

DESCRIPTORS: *Costs, *Investments, Public administration, Federal budgets, Rates, United States government, Policies, Benefits, Time dependence, Inflation(Economics), Economic analysis, Theory, Theses (U)
IDENTIFIERS: *Discounting theory, Social discount rate (U)

The purpose of this paper is to review the current policy estbalished by the Office of Management and Budget (OMB) concerning the use of discounting in evaluating time-distributed costs and benefits of proposed public investments. Although a widely accepted concept in the private sector, the use of discounting in the public sector has been less clearly defined and a subject of considerable debate. The mechanics of discounting and the importance of the discount rate in investment decisions are discussed. A brief history of discounting in the public sector is presented including highlights of the Congressional Hearings in 1968 from which the current policy resulted. Several issues relating to the OMB policy such as the question of social versus economic goals, the effect of budget constraints, and the potential misapplication or misuse of the discounting methodology are addressed. Particular attention is given to the problem of inflation and its impact on the established rate. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A066 518 5/3 12/1

CARNEGIE-MELLON UNIV PITTSBURGH PA MANAGEMENT SCIENCES RESEARCH GROUP

A Parametric Linear Complementarity Technique for the Computation of Equilibrium Prices in a Single Commodity Spatial Model. (U)

DESCRIPTIVE NOTE: Management science research rept.,
DEC 78 45P Pang,Jong-Shi :Lee,Patrick S. C. ;
REPT. NO. MSRR-427
CONTRACT: N00014-75-C-0621

UNCLASSIFIED REPORT

DESCRIPTORS: *Econometrics, *Commodities, *Price index, *Linear programming, Algorithms, Equilibrium(General), Quadratic programming, Matrices(Mathematics), Networks, Computations (U)
IDENTIFIERS: MUNR047048 (U)

This paper presents a parametric linear complementarity technique for the computation of equilibrium prices in a single commodity spatial model. We first reformulate the model as a linear complementarity problem and then apply the parametric principal pivoting algorithm for its solution. This reformulation leads to the study of an arc-arc weighted adjacency matrix associated with a simple digraph having weights on the nodes. Several basic properties of such a matrix are derived. Using these properties, we show how the parametric principal pivoting algorithm can be greatly simplified in this application. Finally, we report some computational experience. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A066 136 9/3 14/1

ANALYTIC SCIENCES CORP READING MASS

Avionics Standardization Potential Analysis. (U)

DESCRIPTIVE NOTE: Final rept. 16 May 77-16 May 78,
NOV 78 89P Gates,Robert K. ;Shipp,
Robert F. ;
REPT. NO. TASC-TR-1059-3
CONTRACT: F33615-77-C-1167
PROJ: 2003
TASK: 02
MONITOR: AFAL TR-78-168

UNCLASSIFIED REPORT

DESCRIPTORS: *Avionics, *Standardization, *Cost analysis, Life cycle costs, Computer programs, Computer program documentation, Potential theory, Data reduction, Systems analysis (U)
IDENTIFIERS: WUAFAL20030244, PE62204F (U)

The objective of the Avionics Standardization Potential Analysis program is to develop a general methodology for evaluating the benefits accruing from the use of standard equipment across future USAF avionics systems. The methodology has been developed using navigation avionics, as being representative of avionics in general, in a study of standardization potential across navigation systems (SPANS). The methodology covers the process of establishing future avionics systems requirements through mission analysis, identification of available equipment for the design of mission-responsive avionics suites, evaluation of future quantitative demands for avionics equipment, synthesis of mission-capable avionics systems, collection of relevant cost and reliability data and evaluation of standardization options using a computer-based Standardization Evaluation Program (STEP). (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A065 664 14/1 9/2

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND ST LOUIS MO

Sources and Nature of Cost Analysis Data Base Reference Manual. (U)

DESCRIPTIVE NOTE: Interim rept.,
FEB 79 153P Rogers,Thomas R. ;
REPT. NO. USAAVRADCOM-TR-79-9

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A048 322.
DESCRIPTORS: *Cost analysis, *Data bases, *Cost estimates, Data acquisition, Skills, Sources, Army planning, Standardization, Data storage systems, Military requirements (U)

Citing specific examples, the report examines, evaluates, analyzes and portrays the sources and nature of the Cost Analysis data base emphasizing important interrelationships between process (gathering, normalization, evaluation), professional skill requirements, the planning of future report revisions, and the development of new data sources. For analysis, the main body of the report employs an expanded 13-step format. Entries on the format were obtained from personnel interviews. The report is organized to permit future changes and to facilitate cross-referencing. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A065 643 14/1 14/4

MARTIN MARIETTA AEROSPACE ORLANDO FLA

Reliability Trade-Offs for Unit Production Cost. (U)

DESCRIPTIVE NOTE: Final technical rept. Jun 77-May 78,
JAN 79 72P Butler,Thomas W. ;
CONTRACT: F30602-77-C-0118
PROJ: 2338
TASK: 02
MONITOR: RADC TR-78-280

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost effectiveness, *Trade off analyses, *Reliability, Costs, Production, Models, [illegible]s, Standardization, Vendors, Select[illegible], Spare parts, Control, Assembly (U)
IDENTIFIERS: PE62702F, MURADC2338021I (U)

Martin Marietta Corporation conducted a 12 month study program to develop models for the evaluation of trade-offs in the requirement to execute specific reliability program elements, the resultant achieved reliability and the impact upon unit production cost. The program elements considered include: Parts standardization, selection and control; vendor selection, qualification and surveillance; and screening and test programs at piece part and various assembly levels. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A065 570 14/1 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

The Production Function and Airframe Cost Estimation. (U)

DESCRIPTIVE NOTE: Master's thesis.
DEC 78 72P Long,John A. :
REPT. NO. AFIT/GOR/SM/78D-8

UNCLASSIFIED REPORT

DESCRIPTORS: *Airframes, *Cost models, Cost Estimates, Least squares method, Nonlinear systems, Data bases, Models, Theses (U)

In recent years, men and governments have become keenly aware of the huge capital outlays necessary in the acquiring of new weapons systems. Increased burden on limited capital has required more complete and careful planning. This planning has led to the need for accurate and timely cost predictions of new systems. Historically, the variables affecting the future cost of aircraft airframes have been proven to be airframe weight and aircraft speed. These are often combined with learning hypothesis to form an airframe cost model. In this paper, the production function of microeconomics is combined with weight, speed, and learning to form a nonlinear cost estimation model. Nonlinear least squares regression analysis was used in evaluating this model. Although the results are inconclusive, based on the data used, weight and speed combined with learning still appear to be the best predictors of aircraft airframe cost. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A065 552 7/3

ARMY MATERIALS AND MECHANICS RESEARCH CENTER WATERTOWN MASS

Low-Cost Solvents for the Preparation of Polyphenylquinoxalines. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 79 12P Wentworth,Stanley E. ;
Larsen,Deborah J. ;
REPT. NO. AMMRC-TR-79-3
PROJ: 1L162105AH84

UNCLASSIFIED REPORT

DESCRIPTORS: *Quinoxalines, *Synthesis(Chemistry), Phenyl radicals, Solvents, Costs, Monomers, Polymers, Phenols, Thermal stability, Oxidation reduction reactions, Molecular weight (U)
IDENTIFIERS: ASH84, PE62105A (U)

Recent studies have shown there to be great potential for reducing the cost of polyphenylquinoxalines by significantly lowering the cost of the requisite monomers. Such reductions have made previously insignificant solvent costs an important factor in the overall resin cost. Accordingly, a polyphenylquinoxaline was prepared in solvents where relatively expensive isomerically pure m-cresol was replaced with technical phenol or cresol. A series of comparisons was made between these polymers and a polyphenylquinoxaline prepared in the conventional solvent. It was conclusively shown that each of the polymers was of comparable quality in terms of thermal oxidative stability and molecular weight. Thus, less costly solvents can be used for the preparation of polyphenylquinoxalines, thereby further reducing the cost of these superior resins. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A065 546 5/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Administration of Cost Accounting Standards. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 79 35P White,Richard P. ;Weinstein, Robert M. ;
CONTRACT: MDA903-77-C-0370

UNCLASSIFIED REPORT

DESCRIPTORS: *Standards, *Costs, *Accounting, Management, Department of Defense, Decision making, Government procurement (U)

This report examines the process for administering CAS requirements within DoD and concludes that extensive revision of procedures is not necessary. The report states that many administrative contracting officers (ACOs) have difficulty executing the CAS requirements; that, as a group, ACOs are inadequately prepared to make the necessary decisions; that CAS administration is done more intensively when the ACO is located at the contractor's plant; and that prime contractors rarely administer the CAS provisions in their subcontracts. The report concludes that DoD could make more effective use of people and time by improving the capabilities of ACOs and recommends actions to give those administering CAS the knowledge and skills needed to make required decisions. It recommends creation of a single office in DoD to be responsible for all DoD CAS interpretations and guidance, recommends other specific tasks and procedures for that office and recommends elimination of CAS specialists at all organizational levels between ACO and the CAS office. It also recommends that DoD consider proposing changes to the CAS Board that would exempt negotiated defense contracts based on adequate price competition and that would restrict application of CAS to major contractors with on-site ACOs and subcontractors who also hold CAS-covered prime contracts. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A065 513 1/3 14/2 1/2

DOUGLAS AIRCRAFT CO LONG BEACH CALIF

Feasibility and Cost Effectiveness of Airborne Tire Pressure Indicating Systems. (U)

DESCRIPTIVE NOTE: Final rept. Sep 77-Sep 78,
OCT 78 125P Suiter,R. L. ;
CONTRACT: DOT-FA77WA-4075
MONITOR: FAA/RD 78-134-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft tires, *Pressure gages, *Aviation safety, Warning systems, Airborne, Detection, Pressure transducers, Safety equipment, Measuring instruments, Display systems, Cost effectiveness, Feasibility studies (U)
IDENTIFIERS: *Airborne tire pressure indicating systems (U)

The cost-effectiveness and feasibility of airborne tire pressure indicating systems are evaluated for potential application to modern air carrier transports having 6, 10, and 18 wheels. Both wheel mounted pressure readout gauges and devices and cockpit tire pressure warning indicators are studied. Typical wheel mounted readout devices and eleven conceptual cockpit indicating systems are discussed. Information on accuracy, temperature compensation requirements, weight, installation cost system cost, and system maintenance cost is provided. Each cockpit system is evaluated against important design criteria which require that cockpit systems cause no false warnings and that each system be capable of being tested periodically to determine its ability to detect a low pressure tire when it occurs. A study of tire failures is made for 1973-1976 identifying rate of tire failures and aircraft damage costs resulting from tire failures. The study presents data that shows that 65% of airframe damage cost is related to underinflation - induced or related tire failures which may be avoided by a properly designed tire pressure indicating system. Average airframe damage cost per departure for each study aircraft, based on actual airline data, is presented with comments on delay and cancellation costs. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MC7

AD-A065 145 9/2 14/1

FEDERAL COBOL COMPILER TESTING SERVICE WASHINGTON D C

Handbook For Estimating Conversion Costs of Large Business Programs. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 79 47P Oliver,Paul ;
REPT. NO. FCCTS/TR-79/01

UNCLASSIFIED REPORT

Available from National Technical Information Service, Springfield, VA. 22161. PCS7.50. MF$7.50.
DESCRIPTORS: *Data storage systems, *Cost estimates, Handbooks, Data management, Computer programs, High level languages, Conversion, Resources, Data processing (U)

This handbook is intended to assist a manager in making estimates of conversion costs for large, business/administrative data processing systems. It assumes that source programs are in a higher-level language (probably COBOL), but most of the procedures are applicable to any conversion. The 'production' phase would be the one most affected by deviations from these assumptions. The user of the handbook will note that many cost components are not quantified. This was done in those cases where a generalized rule of thumb, out of context, is simply not available. Thus, the user will have to supply his own figures. In all cases, estimates given are not to be taken as universal truths. A user of this handbook should not feel constrained by these estimates if his knowledge of his specific situation suggests different estimates. (Author) (U)

AD-A064 996 5/9 1/2 14/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

A Cost-Benefit Analysis of the Proposed Consolidation of All Navy and Marine A6-E Fleet Replacement Training Squadrons. (U)

DESCRIPTIVE NOTE: Master's thesis, DEC 78 147P Kelley,Kevin Philip ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Flight training, *Naval training, *Marine Corps training, *Cost effectiveness, Naval air stations, Attack aircraft, Feasibility studies, Cost estimates, Resource management, Naval planning, Flight crews, Proficiency, Manpower utilization, Squadrons, Theses (U)
IDENTIFIERS: A-6 aircraft, A-6E aircraft (U)

This thesis contains a Cost-Benefit Analysis conducted to determine the advisability and the economic feasibility of consolidating all Navy and Marine Corps A-6E Fleet Replacement Training Squadrons. A detailed examination is made of the prevailing and projected conditions at each of the current training sites. The accumulated data is analyzed regarding its effect on the training environment overall and the requirements for aircraft and personnel support under both present circumstances and the proposed conditions of consolidation. A range of feasible alternatives is then developed and cost estimates are presented for those possibilities. It is shown that consolidation is a realistic option, with certain logistical constraints, which will produce specific benefits in the quality of the resultant aircrews and possible fiscal savings to the Department of the Navy as well. The final recommendation involves adoption of the proposal according to the guidelines of one of two realistic alternatives developed by the research. (Author) (U)

AD-A064 698 13/2 5/3 9/2

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Systems Approach to Life-Cycle Design of Pavements. Volume III. LIFE2 Program Listing. (U)

DESCRIPTIVE NOTE: Final rept., JAN 79 453P Lindow,Edward S. ;
REPT. NO. CERL-TR-M-253-VOL-3
PROJ: 4A763734DT08
TASK: 0*

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: See also Volume 1, AD-A061 157.
DESCRIPTORS: *Pavements, *Life cycle costs, *Computer programs, *Systems approach, Civil engineering, Runways, Roads, Subroutines, Materials laboratories, Maintenance management, Statistical data, Construction materials, Road building equipment (U)
IDENTIFIERS: LIFE2 Automated system, PE63734A, AST08, WU001 (U)

This report is the third volume of a three-volume report which documents an automated system (LIFE2) for analyzing pavement designs and maintenance and repair strategies based on life-cycle costs. LIFE2 models existing Corps of Engineers criteria for designing rigid and flexible pavements for airfields, roads, and streets. The program includes analytical procedures for evaluating earthwork, drainage, and frost protection requirements in addition to maintenance costs. The resulting combinations of design schemes and maintenance strategies are ranked by total cost over the design life of the pavement. Volume I is the LIFE2 Users Manual, Volume II is the LIFE2 System Documentation, and Volume III is the LIFE2 Program Listing. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A064 693 21/5 11/6

GENERAL ELECTRIC CO CINCINNATI OHIO AIRCRAFT ENGINE GROUP

Ti/Al Design/Cost Trade-Off Analysis. (U)

DESCRIPTIVE NOTE: Final rept. 12 Sep 77-12 Mar 78,
OCT 78 125P Holowach,J. ;Redden,T. K.
REPT. NO. R78AEG534
CONTRACT: F33615-77-C-2066
PROJ: 3066
TASK: 12
MONITOR: AFAPL TR-78-74

UNCLASSIFIED REPORT

DESCRIPTORS: *Titanium alloys, *Aluminum alloys, *Turbojet engines, Superalloys, Nickel alloys, Costs, Weight reduction, Cost effectiveness, Trade off analyses, Engine components, Intermetallic compounds, Compressors, Axial flow compressors, Gas turbine blades, Ducts, Powder metallurgy (U)
IDENTIFIERS: Liners, Nonpyrophoric, PE52203F, WUAFAPL30661248 (U)

IAC ACCESSION NUMBER: MCIC-107174
IAC DOCUMENT TYPE: MCIC -HARD COPY--
A new class of alloys based on intermetallic compounds in the titanium aluminum system has shown the potential for application in the temperature range of 1000-1700 F. This program was undertaken to investigate the type of application and payoff that would result. Two titanium aluminum alloys were looked at, the Ti3Al (alpha two) and TiAl (gama). The use of Ti3Al was restricted to static components, whereas TiAl was limited to dynamic components. The dynamic application selected was a compressor and turbine blade. The static application was a mixing duct and exhaust duct liner. Cost of the selected titanium aluminides components was compared with the current cost of the nickel-base-superalloy components. The results show a cost increase for all the components. A detailed structural analysis of the four components shows the substitution would lead to longer life components. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A064 466 21/4

FEDERAL AVIATION ADMINISTRATION WASHINGTON D C OFFICE OF AVIATION POLICY

A Proposed Aviation Energy Conservation Program for the National Aviation System. Volume II. The Intermediate and Long Run, 1979-1990. (U)

DESCRIPTIVE NOTE: Final rept.
NOV 78 83P
REPT. NO. FAA-AVP-78-12-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A064 623.
DESCRIPTORS: *Energy conservation, *Aviation fuels, *Cost analysis, Savings, Efficiency, Policies, Fuel consumption, Commercial aviation, Inventory control, Computer programs, Performance(Engineering) (U)
IDENTIFIERS: *Aviation Energy Conservation Program (U)

This study presents an overview of potential options for improving aviation energy efficiency. Included in the proposed program are alternatives that could be pursued by the Federal Government as well as options that could be adopted by the various segments of the aviation industry. The report is in four volumes: 1 - The Short Run, 1977-1978; 2 - The Intermediate and Long Run, 1979-1990; 3 - The Proposed Aviation Energy Conservation Program; and Summary - Overview of preceding technical volumes. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A064 454 1/5 5/3 5/1

FEDERAL AVIATION ADMINISTRATION WASHINGTON D C OFFICE OF AVIATION POLICY

Financing the Airport and Airway System: Cost Allocation and Recovery. (U)

DESCRIPTIVE NOTE: Final draft rept., NOV 78 77P Rodgers,John M. :
REPT. NO. FAA-AVP-78-14

UNCLASSIFIED REPORT

DESCRIPTORS: *Airports, *Finance, *Civil aviation, *Taxes, Costs, Allocations, Utilization, Public administration, Recovery, Management planning and control (U)
IDENTIFIERS: LPN-FAA-AVP-210 (U)

Development and maintenance of the Federal airport and airway system are authorized by the Airport and Airway Development Act of 1970 (as amended through 1976). Elements of existing legislation will expire in 1980. The purpose of this report is to analyze airport and airway system finances as a guide for developing post-1980 development and financial programs. Estimates are provided of 1978 and 1987 airport and airway system costs. System costs are allocated to users under two alternative procedures providing a range of cost responsibility. Aviation tax revenues are projected for 1978 and 1987 and are compared with allocated user costs. Several changes in aviation user taxes are evaluated as methods of aligning future airport and airway tax contributions with cost responsibility. (Author) (U)

AD-A064 454

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A064 442 5/1 12/1 5/3

DECISIONS AND DESIGNS INC MCLEAN VA

Applications of Decision Analysis to the U. S. Army Affordability Study. (U)

DESCRIPTIVE NOTE: Technical rept., DEC 78 95P Suede,Dennis M. :Donnell, Michael L. :Feuerwerger,Phillip H. :Raglard, Janice E. :
REPT. NO. TR-78-10-7
CONTRACT: N00014-78-C-0100, ARPA Order-3469

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Advanced Decision Technology Program.
DESCRIPTORS: *Decision making, *Cost analysis, *Army planning, Resource management, Costs, Benefits, Allocations, Military requirements, Missions, Value, Ranking, Utilization (U)
IDENTIFIERS: Affordability, Decision analysis, Priorities, Utility analysis, Multiattribute utility analysis (U)

This report describes several applications of decision analysis to the Army's Affordability Study. These applications are focused on the allocation of resources to support the requirements, concepts, plans and programs of the Army. Decision analysis is a quantitative procedure for systematic evaluation of the alternative available to a decision maker. Decision-analytic techniques are used to structure a decision problem into clearly defined components, so that all options, outcomes, values, and probabilities are depicted. Decision analysis is first applied in cost-benefit analysis to rank the Army Program Development Increment Packages and Program Analysis Resource Review issues. The cost-benefit process involves quantifying the relative benefits and costs of each program. Since the purpose of prioritization is to determine the allocation of money to a discrete number of programs, the quantification of benefit is done according to an Army mission value system, not according to a monetary value system. Once the benefits have been quantified, the programs can be prioritized from the most cost-beneficial (benefit per dollar) to least. (U)

AD-A064 442

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A064 333 14/1 15/5 1/3

RAND CORP SANTA MONICA CALIF

An Appraisal of Models Used in Life Cycle Cost Estimation for USAF Aircraft Systems. (U)

DESCRIPTIVE NOTE: Interim rept.,
OCT 78 128P Marks,Kenneth E. ;Massey, H. Garrison ;Bradley,Brent D. ;
REPT. NO. RAND/R-2287-AF
CONTRACT: F49620-77-C-0023

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DDC reproductions will be in black and white.
DESCRIPTORS: *Cost models, *Life cycle costs, *Military aircraft, Cost analysis, Cost estimates, Life expectancy, Allocations, Trade off analyses, Decision making, Acquisition, Maintainability, Reliability, Utilization (U)

Although life cycle analysis is widely used as a management tool, considerable uncertainty still exists about its effectiveness with respect to economic tradeoffs, funding decisions, and resource allocations. This report evaluates some of the most widely used life cycle cost (LCC) models: AFR 173-10 models (BACE AND CACE); the Logistics Support Cost Model; the Logistics Composite model; the MOD-METRIC model; AFM 26-3 Manpower Standards; Air Force Logistics Command Depot Maintenance Cost Equations; the DAPCA model; and the PRICE model. The models are rated within a framework incorporating a set of life cycle cost elements and a set of cost driving factors. Color-coded illustrations summarize the results. The models are shown to have many shortcomings that limit their usefulness for life cycle analyses in which estimates of absolute, incremental cost are required. Specific areas are identified where driving factor/cost element combinations are not adequately addressed. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A064 223 5/3 15/5 9/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

An Approach to Software Life Cycle Cost Modeling. (U)

DESCRIPTIVE NOTE: Master's theses,
DEC 78 76P Walker,William H. , IV:
REPT. NO. AFIT/GCS/EE/78-21

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, Air Force procurement, Computer applications, Computer programming, Algorithms, Mathematical models, Air Force planning, Theses (U)

This report describes the development of a software life cycle costing model. The model reduces life cycle cost to a function of three parameters which are in turn functions of a number of factors that describe the software system. A step-by-step algorithm is presented for building the model from raw data. The model is exercised as an example with a small amount of data. Sensitivity analysis is used to help select the most salient facors. Brief descriptions of management applications and recommendations are presented. Appendices describe sample data and two computer programs used to develop the model. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A064 115 15/7 14/1

ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND DOVER NJ SYSTEMS EVALUATION OFFICE

Preliminary Criteria for Optimizing the Cost Effectiveness of System Improvements to Enhance Survivability. (U)

DESCRIPTIVE NOTE: Special publication,
NOV 78 16P Moore,Richard L. ;
REPT. NO. ARSED-SP-7600:
MONITOR: GIDEP,SBIE E135-2528,AD-E400 202

UNCLASSIFIED REPORT

DESCRIPTORS: *Lanchester equations, *Tactical analyses, *Cost effectiveness, Survival(General), Weapon system effectiveness, Figure of merit, Weapon system effectiveness, Kill probabilities, Economic analysis, Optimization, Life cycles (U)
IDENTIFIERS: Lanchester square law (U)

The Lanchester law of combat has been used used to develop a figure of merit for survivability. The economic principle of marginal utility has been applied to demonstrate a proposed method of evaluating the cost-effectiveness of various possible survivability enhancing improvements. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A063 928 9/1 17/4

NORTHROP CORP DES PLAINES IL DEFENSE SYSTEMS DIV

I/J Band Low-Cost Crossed-Field Amplifier. (U)

DESCRIPTIVE NOTE: Interim technical rept. 28 Sep 77-8 May 78.
DEC 78 29P Moats,Robert R. ;
REPT. NO. 094-008686
CONTRACT: DAAB07-77-C-2642
MONITOR: DELET TR-77-2642-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Crossed field devices, *Microwave amplifiers, *Electron tubes, Low costs, Electronic warfare, E band, F band, J band, I band, Substrates, Gain, Injection (U)
IDENTIFIERS: Meander lines, Injected beam crossed field amplifiers, Laser cutting (U)

This program is directed toward development of an I/J band, linear format, injected-beam crossed-field amplifier (IBCFA) for electronic warfare. The IBCFA should be capable of power output of 1000 W peak, 200 W average, between 8.5 and 17 GHz with 20 dB gain. A laser-cut shaped-substrate meander line is used. Performance in an E/F band IBCFA is evaluated, for which the objective performance in the 2-4 GHz band is 3.0 kW peak power output, 1.0 kW average power output, also with 20 dB gain. In addition, a gun for I/J band is to be designed and evaluated. For E/F band, a cold-test model was built using the same technology as contemplated for operating tubes. Values of delay ratio, coupling impedance, and attenuation were substantially as expected. An E/F-band operating CFA using the shaped-substrate meander line, and other parts common with a standard E/F-band CFA design, was built and tested. Performance was comparable with a typical CFA of standard design, slightly lower in efficiency at mid band and approximately the same over the remaining part of the 2-4 GHz band. An I/J-band cold-test model was built, and measurements of delay ratio, coupling impedance, and attenuation were made. (U)

AD-A063 619 14/1 5/1

DECISIONS AND DESIGNS INC MCLEAN VA

Cost-Benefit Analysis Applied to the Program Objectives Memorandum (POM). (U)

DESCRIPTIVE NOTE: Technical rept.,
NOV 78 82P Buede,Dennis M. ;Ragland, Janice E. ;
REPT. NO. TR-78-9-72
CONTRACT: N00014-78-C-0100, ARPA Order-3052

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost effectiveness, *Planning programming budgeting, Marine Corps planning, Army planning, Decision making, Methodology, Army budgets (U)
IDENTIFIERS: Zero base budgeting (U)

This report provides a complete discussion of a cost-benefit analysis for the preparation of the Program Objectives Memorandum (POM). This cost-benefit analysis incorporates elements from the fields of economics, organizational theory, psychology, and computer science. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A063 529 5/9

GENERAL RESEARCH CORP MCLEAN VA

Documentation of Analytical Services Provided in Support of Navy Enlisted Personnel Projections for POM-80. (U)

DESCRIPTIVE NOTE: Final rept. 1 Apr-30 Aug 78.
OCT 78 46P Goudreau,Kenneth A. ; Schmitz,Edward J. ;McWhite,Peter B. ;Rose, Sue G. ;Sica,Geraldine ;
REPT. NO. CR-228
CONTRACT: N00014-78-C-0435

UNCLASSIFIED REPORT

DESCRIPTORS: *Manpower utilization, *Naval budgets, *Cost analysis, Models, Linear programming, Data bases, Tables(Data), Naval personnel, Enlisted personnel, Naval planning (U)

This report documents the technical work General Research Corporation performed to assist CNO OP-901M in preparing the FY 80 Navy Manpower Program Objectives Memorandum (POM-80). Recommendations to improve the accuracy of the Enlisted Projection Model used by OP-901M in the POM process are included. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A063 514 18/6 15/6

ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND ABERDEEN PROVING GROUND MD BALLISTICS RESEARCH LAB

The Nuclear Hardening of Army Tactical Systems: A Trade-Off Methodology. (U)

DESCRIPTIVE NOTE: Final rept.,
NOV 78 25P Schwenk,R. Michael ;Klopcic, J. Terrence ;
REPT. NO. ARBRL-MR-02875
PROJ: 1L162120AH25
MONITOR: SBIE AD-E430 149

UNCLASSIFIED REPORT

DESCRIPTORS: *Radiation hardening, Army operations, Tactical weapons, Nuclear warfare, Trade off analyses, Cost effectiveness, Army equipment, Cost analysis, Life cycle costs, Tactical warfare, Survival(General) (U)
IDENTIFIERS: COEA(Cost and Operational Effectiveness Analysis), ASH25, PE62120A (U)

Presented is a trade-off methodology for quantitatively optimizing the nuclear hardening of Army tactical systems based on operational impact and life-cycle cost. Included is a proposed set of procedures and analyses which provide a systematic approach for ensuring nuclear hardening predicated upon mission-related survivability criteria and relative military worth. The methodology closely parallels current COEA designs and, as such, is applicable as a comprehensive, readily-adaptable, Army-wide program. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A063 382 5/1 17/2 14/1

DEFENSE COMMUNICATIONS ENGINEERING CENTER RESTON VA

An Overview of the Cost Benefit Analyses for the Automated Technical Control (ATEC). (U)

DESCRIPTIVE NOTE: Technical note.
NOV 78 102P Stroud,Vincent D. ;
REPT. NO. DCEC-TN-7-78
MONITOR: SBIE AD-E100 151

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Control systems, *Automation, Benefits, Commercial communications, Telephone systems, Logistics support, Maintenance, Monitoring, Manpower, Life cycle costs, Cost effectiveness (U)
IDENTIFIERS: ATEC(Automated Technical Control), Cost benefit analysis (U)

This report provides an overview of the ATEC cost/benefit analyses conducted by the government and industry and some of the automation work accomplished by commercial telephone companies. It consolidates the results of many of the plans and studies pertaining to the ATEC cost/benefit analyses and provides an insight into the scope and depth of what has been accomplished. As a basis for comparison, information on some of the automation work accomplished by GTE and the Bell System including the indications and evidence of the cost/benefits they experienced is provided in the report. Recommendations are made for the conduct of future cost/benefit analyses for the ATEC program. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A062 947 9/2 1/3

KEARNEY (A T) INC CHICAGO IL CAYWOOD-SCHILLER DIV

The Mission Trade-Off Methodology (MTOM) Model: User's Manual. (U)

DESCRIPTIVE NOTE: Final rept. Mar 74-Feb 75, OCT 78 150P Strauss,W. J. ;Bailey,N. D. ;Kasper,M. W. ;
CONTRACT: F33615-74-C-5141
MONITOR: JTCG/AS 76-S-002

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. JTCG/AS-76-S-001, AD-A049 318.
DESCRIPTORS: *Trade off analyses, *Cost effectiveness, *Aircraft, *Computer programs, Survival(General), Modification, Weapon system effectiveness, Probability, Missions, Input output processing, Instruction manuals, User needs, FORTRAN, Flow charting (U)
IDENTIFIERS: MTOM computer programs, User manuals, FORTRAN 4 programming language, CDC 6600 computers, LPN-JTCG/AS-SA-6-02 (U)

The MTOM programs provide a means for evaluating the relative cost-effectiveness of proposed aircraft modifications for the purpose of enhancing survivability. There are two programs: MTO/E (mission trad-off/effectiveness) model and MTO/C (mission trade-off/cost) model. This report is designed to enable the user to prepare the inputs for the MTOM programs. The report explicitly explains formats, outputs, the relationships of inputs to outputs, and the limitations and restrictions on the inputs. (Author) (U)

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A062 864 21/5

WILLIAMS RESEARCH CORP WALLED LAKE MICH

Low Cost Expendable Engine. (U)

DESCRIPTIVE NOTE: Final technical rept. Apr 76-Mar 78,
MAR 78 120P Huben,C. A. ;Metsker,D. L. ;
CONTRACT: F33615-76-C-2123
PROJ: 3066
TASK: 15
MONITOR: AFAPL TR-78-33

UNCLASSIFIED REPORT

DESCRIPTORS: *Turbojet engines, *Expendable, *Gas turbines, Low costs, Axial flow compressors, Flight simulation, Manufacturing, Sheets, Engine components, Test facilities, Test methods (U)
IDENTIFIERS: PE62203F, *UAFAPL30661522 (U)

A low cost expendable turbojet engine in the 200 pound thrust class was fabricated and tested. The design, manufacturing, and inspection concepts of the program resulted in the achievement of a projected engine cost of $2883 each in lots of 1000 engines in terms of 1975 economics. Problems solved during the compressor rig testing and engine tune-up testing are discussed. The results of the engine demonstration testing both at sea level static conditions and under a simulated Mn 0.7 condition are presented. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A062 719 13/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Design of Solar Heating and Cooling Systems. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 78 57P Jonich,David M. ;Leverenz, Donald James ;Hittle,Douglas C. ;Walton, George N. ;
REPT. NO. CERL-TR-E-139
PROJ: 4A762731AT41
TASK: T6

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Solar heating, *Cooling, *Solar energy, *Cost analysis, *Computerized simulation, Computer aided design, Solar collectors, Buildings (U)
IDENTIFIERS: BLAST(Building Loads Analysis and Systems Thermodynamics) Program, WU021, AST41, PE62731A (U)

This report presents a method for making an energy and an economic cost/benefit analysis of solar energy systems. A graphical method is presented for evaluating the performance of solar domestic hot water systems, solar heating systems, and solar heating and cooling systems. Methods for selecting the optimum collector area based on benefit-to-cost ratio and for systematically making detailed design calculations using the Building Loads Analysis and System Thermodynamics (BLAST) computer simulation program are also presented. Practical considerations for solar system designs are discussed. The methods presented provide the required accuracy for both initial evaluations and final design calculations. Examples are provided throughout the text to aid in using the methods described. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A062 706 9/5 20/12

RCA SOLID STATE DIV SOMERVILLE NJ

Development Report for High-Reliability, Low-Cost Integrated Circuits. (U)

DESCRIPTIVE NOTE: Rept. for 3 Nov 77-3 Sep 78.
SEP 78 39P
CONTRACT: N00039-76-C-0240
PROJ: F54586
TASK: XF54586002

UNCLASSIFIED REPORT

DESCRIPTORS: *Integrated circuits, Chips(Electronics), Wafers, Silicon nitrides, Titanium, Platinum, Gold, Low costs, High reliability, Hermetic seals, Aluminum, Photomasking (U)
IDENTIFIERS: Plastic packaging, Metallization, Automated assembly, PE62762N (U)

Wafer fabrication has been completed. The control units (aluminum metallized DIC and DIP devices and trimetal devices in open DIC packages) are 90-percent complete. Thermal-shock testing of HRLC (high-reliability, low-cost) product has defined a beam-tape design problem which has necessitated the redesign of the beam tapes on all types. Life-test matrices have been run on CD4012 and CA741 to gain a preliminary insight into the failure modes to be expected in Phase III. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A062 471 9/2 12/1

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Scheduling Tasks with Exponential Service Times on Nonidentical Processors to Minimize Various Cost Functions. (U)

DESCRIPTIVE NOTE: Research rept.,
AUG 78 34P Weiss,Gideon ;Pinedo,Michael
;
REPT. NO. ORC-78-16
CONTRACT: N00014-77-C-0299, AFOSR-77-3213

UNCLASSIFIED REPORT

DESCRIPTORS: *Multiprocessors, *Dynamic programming, Scheduling, Exponential functions, Time intervals, Stochastic processes, Distribution functions, Cost effectiveness, Flow charting, Life cycles (U)
IDENTIFIERS: MUNR042379 (U)

We consider preemptive scheduling of N tasks on m processors; processors have different speeds, tasks require amounts of work which are exponentially distributed, with different parameters. The policies of assigning at every moment the task ith shortest (longest) expected processing time among those not yet completed to the fastest processor available, 2nd shortest (longest) to the 2nd fastest etc., are examined, and shown to minimize expected values of various cost functions. As special cases we obtain policies which minimize expected flowtime, expected makespan and expected lifetime of a series system with m component locations and N spares. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A062 407 9/3 5/2

ROCKWELL INTERNATIONAL ANAHEIM CA ELECTRONIC DEVICES DIV

Hybrid Technology Cost Reduction Improvement Sudy Program. Volume II. Abstracts of Articles on Hybrid Microcircuits. (U)

DESCRIPTIVE NOTE: Final rept.
APR 78 109P
REPT. NO. C78-299/501-VOL-2
CONTRACT: N00163-77-C-0299

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A062 406.
DESCRIPTORS: *Microcircuits, *Hybrid circuits, *Literature surveys, *Abstracts, Bibliographies, Reliability(Electronics), Cost analysis, Savings (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A062 406 9/3 9/5

ROCKWELL INTERNATIONAL ANAHEIM CA ELECTRONIC DEVICES DIV

Hybrid Technology Cost Reduction Improvement Study Program. Volume I. Results of Literature Search and Questionnaire Survey. (U)

DESCRIPTIVE NOTE: Final rept. 2 Sep 77-2 Mar 78, APR 78 108P Licari,J. J. ;Perkins,K. L. ;
REPT. NO. C78-299/501-VOL-1
CONTRACT: N00163-77-C-0299

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2 AD-A062 407.
DESCRIPTORS: *Microcircuits, *Hybrid circuits, *Avionics, Literature surveys, Reliability(Electronics), Cost analysis, Savings, Adaptation, Questionnaires, Surveys, Bibliographies (U)

Hybrid microelectronic circuits continue to fulfill a growing need in military avionics systems where physical size (volume and weight) and performance requirements cannot be met by the more conventional packaging techniques such as discrete components on printed wiring boards, and where cost and schedules preclude the use of more advanced methods. The military market is generally characterized as fast turnaround, high reliability, and low to medium volume for any one circuit type. A system is usually composed of a large number of diverse circuit types with usage of only 100 to 2000 circuits per year. These moderate quantities, coupled with lower nonrecurring design cost and shorter development times, often make hybrids an economic choice over custom LSI/VLSI. The hybrid market is dynamic and growing making it difficult to arrive at an annual sales figure; further most major aerospace companies have captive hybrid microcircuit facilities serving their system needs. However, estimates of the total military hybrid market for FY 1978, based on data received from the questionnaire, is $250 to $300 million, assuming an average price range of $250 to $300 per circuit. (U)

AD-A062 406

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A062 298 13/1 19/1 14/1

ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA PETROLEUM AND ENVIRONMENTAL TECH DIV

Economic Analysis of the Rotary Kiln and Fluidized Bed P and E Incinerators. (U)

DESCRIPTIVE NOTE: Final rept.. SEP 78 106P Ciccone,Vincent J. ;Graves, Alan P. ;Santos,Joseph S. ;Scola,Robert ;
MONITOR: ARLCD.SBIE TR-78033.AD-E400 220

UNCLASSIFIED REPORT

DESCRIPTORS: *Incinerators, *Cost analysis, *Fluidized bed processors, *Life cycle costs, Rotation, Operation, Capacity(Quantity), Mathematical models, Sensitivity, Discrimination, Decision making, Computer applications, Industrial plants, Waste disposal, Solid propellants, Explosives (U)
IDENTIFIERS: Rotary kilns, Present value unit cost, Capital, Interest (U)

In the evaluation of alternate systems, it is necessary to consider the economic factors associated with each system. The economic analysis of the rotary kiln versus the fluidized bed incinerator was performed using the present value unit cost method. The method considers capital costs, operating costs, time horizons, depreciation, interest and other related factors. In all cases considered, the fluidized bed incinerator was the preferred alternative. (Author) (U)

AD-A062 298

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A062 247 14/1 9/5

BOEING AEROSPACE CO SEATTLE WA ENGINEERING TECHNOLOGY DIV

Hybrid Technology Cost Reduction and Reliability Improvement Study. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 78 155P Waldron,M. M. , III;
Bulchaupt,L. F. :
REPT. NO. D180-24054-1
CONTRACT: N00163-77-C-0298

UNCLASSIFIED REPORT

DESCRIPTORS: *Hybrid circuits, *Costs, *Microcircuits, Assembly, Industrial production, Microelectronics, Avionics, Hybrid systems, Thin films, Thick films, Specifications, Reliability(Electronics), Cost analysis, Data bases (U)
IDENTIFIERS: Electronics industry (U)

The objective of this multi-phase program is to develop the materials, processes, and controls to improve reliability and reduce cost of hybrid microelectronics for application in military avionic systems. The objective of the first phase, the study effort covered by this report, is to develop a data base for the subsequent phases. The first phase, performed over a 6-month period, consisted of two tasks: (1) collection of data and information and (2) data assessment and analysis. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A062 195 5/9

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Cost-Benefit Analysis of Training a Naval Reserve Seabee. (U)

DESCRIPTIVE NOTE: Master s thesis,
DEC 78 57P Fisher,Radney Lee :

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval training, *Military reserves, Naval personnel, Cost analysis, Active duty, Cost effectiveness, National Guard, Combat readiness, Theses (U)

The defense of the United States today is based on the Total Force concept--including a combination of active duty and reserve forces in being which provide for the security structure essential during national crisis. However, the Naval Reserve forces have been continually attacked and reduced in size over the past ten years. Is this continual reduction totally justified. An analysis of the costs to maintain a Reserve Seabee relative to an active duty counterpart suggest that it costs seven times more to pay, train and support the latter. While trained to meet specialization and conditional requirements, the Reserve Seabee benefits both civic and other military organizations with contributed labor, completing many construction projects during the year. The positive benefits at lower cost make the Reserve Seabee an asset to out country's Total Force. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A062 169 13/10 14/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The FFG-7 Frigate an Application of the Design-to-Cost Concept. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 78 118P Cervaens Rodrigues,Jose Antonio Teixeira :

UNCLASSIFIED REPORT

DESCRIPTORS: *Frigates, *Guided missile ships, *Design to cost, Naval architecture, Shipbuilding, Escort ships, Cost estimates, Fleets(Ships), Military force levels, Regression analysis, Mathematical models, Operational effectiveness, Naval operations, Theses (U)
IDENTIFIERS: FFG 7 vessel (U)

This thesis is the application of the concept of design-to-cost to the project of the FFG frigates. Using the available data relative to the major escort programs since 1950, a curve of force effectiveness vs. number of ships, similar to that presented by Vice Admiral Price in his congressional testimony on design of the patrol-frigate or FFG-7, was constructed and the results discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A062 003 15/3 9/2

DEPARTMENT OF DEFENSE WASHINGTON D C

Optimization of a Computer Security Index Versus Cost. (U)

JUN 78 67P Wissing,Richard P. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Data processing security, *Optimization, Computers, Cost effectiveness, Computer programs, Computer printouts, FORTRAN, Input output processing (U)

In this paper, we propose a computer security index for measuring the security of computer systems and a strategy for purchasing computer security countermeasures in a cost effective manner. Required inputs for the model include definition of threats and countermeasures, relative importance of threats, costs of countermeasures, and the effectiveness of each countermeasure against each of the threats listed. If a standardized list of threats and countermeasures can be developed, the computer security index could also be used to compare the security of different computer systems. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 817 5/1 5/3

DATA RESOURCES INC WASHINGTON DC COST FORECASTING SERVICE

Development of Cost Escalation Indexes for Operation and Maintenance Budget Categories. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 78 124P Earl,Paul ;Elwell,Craig ;
CONTRACT: MDA903-77-C-0080

UNCLASSIFIED REPORT

DESCRIPTORS: *Army budgets, *Inflation(Economics), *Planning programming budgeting, *Cost estimates, *Economic models, Indexes(Ratios), Army operations, Maintenance management, Resource management, Rates, Price index, Econometrics, Weighting functions, Data bases, Computer programs (U)

High inflation rates are forcing the Services to take a more full and accurate account of probable escalation in the planning, programming and execution of their operating budgets. This report addresses the development of a comprehensive, disaggregated procedure for forecasting escalation in the Operations and Maintenance portion of the Army Budget. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 636 9/3 5/3

SYRACUSE UNIV N Y

Multilevel Modularization of Systems to Minimize Life Cycle Cost. (U)

DESCRIPTIVE NOTE: Final technical rept.,
SEP 78 55P Biegel,John E. ;Bulcha,
Bisrat ;
CONTRACT: F30602-75-C-0121
PROJ: 9567
TASK: 00
MONITOR: RADC TR-78-207

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Electronic equipment, *Modular construction, *Life cycle costs, Reliability, Mathematical models (U)
IDENTIFIERS: AGRADC95670016, PE62702F (U)

Every electronic equipment modularization (partitioning of an electronic equipment into different numbers of line replaceable units) scheme incurs a different life cycle cost. Methodology which allows an equipment to be modularized or partitioned in a fashion such that life cycle cost is minimized must be developed. This report documents a new procedure which can be used to this end. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 421 14/1 5/1 5/11

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Cost Benefit Analysis of the Department of Defense Family Housing Program. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 78 110P Klein,Terry Owens ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost effectiveness, *Housing(Dwellings), Department of Defense, Naval shore facilities, Morale, Management, Theses (U)

This thesis examines the costs and the benefits of alternative approaches to managing DOD family housing assets. The two approaches examined are Variable Housing Allowance and Fair Market Rental. These two alternatives seek to alleviate the inequities of the present housing system in dramatically different ways. While a Variable Housing Allowance would be more advantageous to the service member, a Fair Market Rental system is being promoted within Congress and the Executive Branch. An approach which combines elements of both the Variable Housing Allowance and Fair Market Rental is recommended as the most viable and equitable alternative to the present family housing system. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 403 13/2 5/3 5/4

COAST GUARD WASHINGTON D C MARINE ENVIRONMENTAL PROTECTION DIV

A Fee Collection Mechanism for the Oil Pollution Liability and Compensation Legislation. (U)

DESCRIPTIVE NOTE: Final rept..
AUG 78 66P Christensen,Michael W. :
Froehlich,Maryann B. :
REPT. NO. USCG-WEP-78-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Oil pollution, *Oil spills, *Costs, *Legislation, Collecting methods, Crude oil, Environmental protection, Water pollution, Imoo (U)
IDENTIFIERS: *Oil pollution liability (U)

The Presidential Initiatives for the reduction of oil pollution of our nation's waters (17 March 1977) mandated 'a study of the fee collection mechanism for the comprehensive oil pollution fund'. The proposed legislation creates a $200 M fund called 'Superfund' to cover clean up costs and to compensate victims for damages from oil pollution. The fund will be sustained by a fee not to exceed $.03 per barrel on all oil domestically produced and imported. Separate collection schemes are required for domestic crude oil, imported crude oil and products, and exported crude oil. Existing reporting and collection mechanisms would be modified to accommodate this fee collection mechanism. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 389 5/9 5/1

DYNAMICS RESEARCH CORP WILMINGTON MASS

Digital Avionics Information System (DAIS). Volume II. Training Requirements Analysis Model Users Guide. (U)

DESCRIPTIVE NOTE: Final rept. May 75-Jan 78, SEP 78 79P Czuchry,Andrew J. ;Doyle, Kristy M. ;Frueh,Jonathan T. ;Baran,H. Anthony ;Dieterly,Duncan L. :
CONTRACT: F33615-75-C-5218
PROJ: 2051
TASK: '00
MONITOR: AFHRL TR-78-58(II)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A056 530.
DESCRIPTORS: *Avionics, *Digital systems, *Information systems, *Air force training, *Life cycle costs, Manuals, Military requirements, Models, Operation, Interactions, Identification, Problem solving, Computer aided design, Cost models, Selection (U)
IDENTIFIERS: DAIS(Digital Avionics Information System), WUAFHRL20510001, PE63243F (U)

The training requirements analysis model (TRAMOD) described in this user's guide represents an important portion of the larger effort called the Digital Avionics Information System (DAIS) Life Cycle Cost (LCC) Study. TRAMOD is the second of three models that comprise a LCC modeling system for use in the early stages of system development. As part of the overall modeling system, the training model is an efficient tool for developing training programs on the basis of task, time, and resource criteria. A data base containing information associated with these criteria is also included. The interactive nature of TRAMOD affords the user great flexibility in structuring its operation while retaining the capability of addressing specific training problems in depth. This guide explains the available options and illustrates the manner in which user/model interaction is accomplished. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 357 5/1 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Air Force Acquisition Logistics Division, its Creation and Role. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 78 150P Powers,Clarke W. :
Recktenwalt,Thomas J. :
REPT. NO. AFIT-LSSR-32-78B

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force procurement, *Life cycle costs, *Logistics support, Weapon systems, Acquisition, Logistics management, Integrated systems, Missions, History, Theses (U)
IDENTIFIERS: Air Force Acquisition Logistics Division (U)

This thesis is a study of the Air Force Acquisition Logistics Division (AFALD) and how it fits into the acquisition community. The accomplishments of AFALD are examined against its objectives of influencing logistics supportability early in the acquisition process and providing a smooth transition of management responsibility from AFSC to AFLC at PMRT. To accomplish this, the thesis begins with a discussion of the acquisition process and a chronological development of the acquisition philosophy and structure from the Army Signal Corps in 1917 to the creation of AFALD. Then AFALD, along with its deputates, are examined as to mission and structure for interface into the acquisition community. Accomplishments of AFALD are then compared to AFALD's stated mission and objectives. Finally, several questions concerning lines of authority and responsibility are raised about the various organizations involved in the acquisition process. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 304 5/1 14/1 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Summary and Analysis of the Initial Application of Life Cycle Costing Techniques to a Major Weapon System Acquisition. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 78 110P Bell,Archie C. ;Turney, Daniel P. ;
REPT. NO. AFIT-LSSR-35-78B

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force procurement, *Life cycle costs, *Attack aircraft, Cost models, Logistics support, Air Force budgets, Cost effectiveness, Systems analysis, Aircraft maintenance, Approximation(Mathematics), Theses (U)
IDENTIFIERS: A-10 aircraft (U)

The first USAF major system acquisition program in which there was explicit consideration given to LCC was the A-X/A-10 Close Air Support Aircraft competition. LCC considerations were quantified using an operating and support (O and S) cost model developed under Project ABLE (Acquisition Based upon consideration of Logistics Effects). Air Force objectives in applying the O and S cost model were: (1) to encourage contractor consideration of operating and support costs in system design, (2) to aid in source selection, (3) to aid in evaluation of engineering change proposals, and (4) to aid in determining the magnitude of award fee (if any) to be granted the contractor. This research has focused on the degree to which these objectives were actually met, problems encountered in meeting them, and suggestions for improving future applications of O and S cost models in LCC programs. Several major deficiencies were discovered in data use and model application that cast serious doubt on the efficacy of this first O and S cost model application and require amelioration to avoid repetition of problems in future acquisition programs. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A061 300 15/5 5/1 5/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Identification and Definition of the Management Cost Elements for Contractor Furnished Equipment and Government Furnished Equipment. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 78 135P Dillard,Billy D. ;Inscoe, Philip D. ;
REPT. NO. AFIT-LSSR-22-78B

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force equipment, *Management planning and control, *Cost analysis, Contract administration, Value engineering, Methodology, Cost effectiveness, Air Force procurement, Economics, Theses (U)

ASPR requires that the program manager perform a cost analysis to determine which components should be procured as GFE instead of being purchased from the prime contractor as CFE. Many cost factors contribute to the decision to provide an item as CFE or GFE. One cost that must be considered is the cost of managing the item, which includes, for example, personnel costs and government and contractor overhead costs. The authors have identified, defined, and assessed the use of relevant and practical elements of contractor and government management cost that should be considered in the CFE/GFE selection process. The study shows that the cost elements are considered important, but not frequently considered, and generally management cost analysis is inadequate. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A061 227 1/3 14/1 9/2

WESTINGHOUSE DEFENSE AND ELECTRONIC SYSTEMS CENTER BALTIMORE MD SYSTEMS DEVELOPMENT DIV

Integrated Thermal Avionics Design (ITAD). (U)

DESCRIPTIVE NOTE: Final rept.. JUN 78 156P Porter,R. F. ;Levitt,E. R. ;Lord,Y. ;Dolbeare,R. T. ;Worsnam,R. H. ;
REPT. NO. 78-0610
CONTRACT: F33615-77-C-2074
PROJ: 2402
TASK: 04
MONITOR: AFFDL TR-78-76

UNCLASSIFIED REPORT

DESCRIPTORS: *Avionics, *Life cycle costs, *Computer aided design, Computer programs, Trade off analyses, Systems engineering, Environmental management, Aircraft equipment, Computer architecture, Algorithms (U)
IDENTIFIERS: PE62201F, WUAFFDL24020407 (U)

This volume contains a description of the ITAD study program results. It includes definition of the computer facility requirements and software and shows by example the improvement to be made in Life Cycle cost when ITAD is applied to the design of electronic equipment. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A061 157 13/2 5/1 5/2

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Systems Approach to Life-Cycle Design of Pavements. Volume I. LIFE2 User's Manual. (U)

DESCRIPTIVE NOTE: Final rept.. SEP 78 93P Lindow,E. S. :
REPT. NO. CERL-TR-M-253-VOL-1
PROJ: 4A763734DT08
TASK: 01

UNCLASSIFIED REPORT

DESCRIPTORS: *Pavements, *Life cycle costs, *Manuals, User needs, Experimental design, Runways, Roads, Computer programs, Maintenance, Pavement bases, Construction, Civil engineering, Concrete (U)
IDENTIFIERS: PE63734A, AST08, WU001 (U)

This report is the first of a three-volume report which documents an automated system (LIFE2), for analyzing pavement designs and maintenance and repair strategies based on life-cycle costs. LIFE2 models existing Corps of Engineers criteria for designing both rigid and flexible pavements for airfields, roads, and streets. The program also includes analytical procedures for evaluating earthwork, drainage, and frost protection requirements, as well as maintenance costs. The resulting combinations of design schemes and maintenance strategies are ranked by total cost over the design life of the pavement. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A061 148 19/5 9/2 19/6

ARINC RESEARCH CORP ANNAPOLIS MD

Reliability, Maintainability, Strategic Reliability, and Life Cycle Cost Comparison Analysis of Three Alternative Mk 71 Mod 0 Gun Mount Control System Designs. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 78 79P Klimowitch,P. ;
REPT. NO. 1644-03-3-1805
CONTRACT: N00197-76-C-0141

UNCLASSIFIED REPORT

DESCRIPTORS: *Fire control systems, *Naval guns, *Microprocessors, Reliability, Maintainability, Life cycle costs, Specifications, Logistics management, Gun mounts, Comparison, Systems analysis (U)
IDENTIFIERS: Mark-71 Mod-0 guns(8-in./55 cal) (U)

This report summarizes the work conducted by ARINC Research Corporation under Contract N00197-76-C-0141, Tasks 3 and 4, for the Gun System Engineering Center/Naval Ordnance Station, Louisville, Kentucky. These contract tasks required comparisons of reliability, maintainability, strategic reliability, and life cycle costs of three alternate control systems for the 8in./55 Caliber Mk 71 Mod 0 Major Caliber Light Weight Gun (MCLWG) and a review of a preliminary development specification for a microprocessor-based control system for this gun. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A061 147 9/1 9/5 13/8

ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND FORT MONMOUTH NJ ELECTRONICS TECHNOLOGY/DEVICES LAB

Low-Cost, Crossed-Field Amplifier Meanderline Circuit Concepts. (U)

DESCRIPTIVE NOTE: Research and development technical rept.,
AUG 78 59P Eater,Calvin D. ;Hartley, Joseph H. ;
REPT. NO. DELET-TR-78-18
PROJ: 1L162705AH94
TASK: B1

UNCLASSIFIED REPORT

DESCRIPTORS: *Crossed field devices, *Microwave amplifiers, *Power amplifiers, *Delay lines, Plasma spraying, Dielectrics, Low costs, Aluminum oxides, Beryllium oxides, S band, L band, Substrates, Spinel (U)
IDENTIFIERS: Meanderlines, Shielded meanderlines, PE62705A, A5H94 (U)

Experimental results of new, potentially low-cost, crossed-field amplifier (CFA) anode circuits are presented and compared with state-of-the-art structures. The shaped-substrate meanderline (SSML) has emerged as the optimum choice for achieving the desired low-cost objectives without compromising the excellent electrical characteristics of available injected beam CFA's (IBCFA). L-Band and S-Band meanderline circuits were designed and constructed on primarily low-dielectric constant substrates. Design aspects were investigated to optimize bandwidth and interaction impedance while maintaining simplified, low-cost structures. Circuit fabrication techniques using arc-plasma-sprayed (APS) spinel were evaluated and found deficient in the areas of low circuit attenuation and surface regularity. Laser machining techniques, which will be covered in another report, have recently emerged as the most promising approach for resolving SSML fabrication problems, and achieving low-cost circuit structures. A simulated, SSML, S-Band, anode design on beryllia dielectric was formulated and subsequently utilized by Northrop Corporation (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A061 146 6/5 5/1

ACADEMY OF HEALTH SCIENCES (ARMY) FORT SAM HOUSTON TEX HEALTH CARE STUDIES DIV

AMOSIST Program Field Evaluation Physician Savings and Cost Effectiveness. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 78 163P Schopper,Aaron W. ;
REPT. NO. HCSD-78-002-B

UNCLASSIFIED REPORT

DESCRIPTORS: *Medical personnel, *Physicians, *Cost effectiveness, *Manpower utilization, Army personnel, Medical services (U)
IDENTIFIERS: AMOSIST Program (U)

In response to the continuing shortage of physicians in the military, the US Army has recently developed a health care delivery system (the AMOSIST Program) which employs physician supervised enlisted corpsmen (AMOSISTs) in Acute Minor Illness Clinics (AMICS) to treat unappointed ambulatory outpatients through the use of printed manuals of medical algorithms. The present report (the second of four to be written) presents the findings regarding the questions concerning the extent, if any, to which this physician extender program (a) saves physicians' time and (b) is cost effective. The analyses indicated that the physician time required to treat the average patient in the traditional, physician-staffed general out-patient clinic (GOC) was significantly larger than the amount of physician time required to treat the average patient treated in an AMIC. The average cost per patient was determined by individually weighting the treatment times by the hourly wage equivalents of the salaries of the principal care providers involved in the care of each patient. The analyses of this data indicated that AMIC-provided care was significantly less expensive than that of GOC-provided care at the level of physician care/consultation costs which would normally be encountered at such clinics. Additional clinic time parameters were also reported. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A061 127 13/2 14/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Engineering and Design Cost/Rate Forecasting System. Volume I. Model Development and Data Analysis. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 78 67P Neathammer,Robert D. ;
REPT. NO. CERL-TR-P-94-VOL-I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A061 108.
DESCRIPTORS: *Construction, *Cost estimates, Mathematical models, Forecasting, Rates, Computer programs, Army Corps of Engineers, Military facilities, Buildings, Computer graphics, Costs, Engineering, Mathematical prediction, Confidence limits (U)
IDENTIFIERS: TEKTRONIX-4051 graphics system, Military construction, Design (U)

This report discusses the development of statistically based models for forecasting engineering and design (E/D) costs in order to establish military construction cost targets for Corps of Engineers Districts and Divisions. The model developed is programmed on the TEKTRONIX 4051 graphics system in the Office of the Chief of Engineers (OCE). When the model was verified, only one of 18 predictions was outside the prediction limits (95% confidence). The model is best used to project E/D costs 1 year in advance, and it is recommended that it be used to help establish cost targets for applicable Corps Divisions/Districts. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A061 108 13/2 14/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Engineering and Design Cost/Rate Forecasting System. Volume II. User's Manual. (U)

DESCRIPTIVE NOTE: Final rept..
SEP 78 24P Neathammer,Robert D. :
REPT. NO. CERL-TR-P-94-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A061 127.
DESCRIPTORS: *Construction, *Cost estimates, Computer programs, Mathematical models, Rates, Forecasting, Linear regression analyses, Army Corps of Engineers, Military facilities, Buildings, Computer graphics, Costs, Engineering, Mathematical prediction (U)
IDENTIFIERS: TEKTRONIX 4051 graphic system, Military construction, Design, User manuals, BASIC programming language (U)

This volume describes the use of the Engineering and Design (E/D) Cost/Rate Forecasting System to maintain E/D data, to update the E/D forecasting model, and to forecast future E/D costs and rates. Volume I provides information on the model development and data analysis. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A060 912 15/5 14/1 12/2

STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH

Computation of the Optimal Average Cost Policy for the Two Terminal Shuttle. (U)

DESCRIPTIVE NOTE: Technical rept..
APR 78 35P Deb,Rajat K. :
REPT. NO. TR-78
CONTRACT: N00014-76-C-0418, NSF-ENG75-14847

UNCLASSIFIED REPORT

DESCRIPTORS: *Mass transportation, *Operations research, *Cost models, Terminals, Passengers, Traffic, Queueing theory, Markov processes, Dynamic programming, Optimization, Decision theory (U)
IDENTIFIERS: NUNR047061 (U)

This paper considers the problem of determining the optimal average cost policy for operating a shuttle between two terminals. The passengers arrive at each of the terminals according to Poisson processes and are transported by a single carrier with capacity 0 < or = infinity operating between the terminals. Under a fairly general cost structure, the optimal average cost policy is monotone, bounds are derived for the optimal control function and computational procedures for determining the optimal policy for both the finite and infinite capacity cases are presented. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A060 819 5/3

STANFORD UNIV CALIF SYSTEMS OPTIMIZATION LAB

Are Dual Variables Prices. If Not, How to Make Them More So. (U)

DESCRIPTIVE NOTE: Technical rept.. MAR 78 18P Dantzig,George B. :
REPT. NO. SOL-78-6
CONTRACT: N00014-75-C-0267, Ey-76-S-03-0326-PA-18

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Sponsored in part by Contract Ey-76-S-03-C326-PA-52 and Grants NSF-MCS76-81259 and NSF-ENG77-06761.
DESCRIPTORS: *Economics, *Price index, Linear systems, Variables (U)
IDENTIFIERS: Prices, WUNR047143 (U)

Actual prices in an economy reflect a number of institutional arrangements -- salaries, savings, taxes, loans, interest, transfer payments, profits, rents, and investment credits. These can be quite different from prices generated by a L.P. (Linear Program). The price of an item in the L.P. is the change in the objective value if an additional unit of the item is made available to the system. An unfortunate consequence is that any capacity (or labor) not fully used gets a zero price. The purpose of this paper is to show how to make a simple perturbation to the linear program, after it has been solved, so that the new dual variables behave more like actual prices. To do this we will need three assumptions: (a) the unused part of capacity is worth zero and can be deleted from the system; (b) an infinitesimal epsilon part of the used capacity is malleable; (c) the value of capacity can be measured by deleting the malleable epsilon part and seeing what it is worth to put it back. We shall show that it is possible to associate new prices with the optimal solution to the perturbed linear program without changing the original optimal primal solution. The new prices remain invariant as the malleable epsilon part of used capacity tends to zero. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A060 772 15/5 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Application of Life Cycle Costing Principles to Less than Major Programs. (U)

DESCRIPTIVE NOTE: Master's thesis. SEP 76 108P Culp,Joseph P. :Novy, Steven D. :
REPT. NO. AFIT-LSSR-6-78S

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Management, *Air Force procurement, Weapon systems, Trade off analyses, Theses, Models (U)
IDENTIFIERS: Lessons learned (U)

This study examined ten current life cycle cost (LCC) procurements of aircraft subsystems and equipment. The objectives of the research were to identify potential LCC problem areas, to consolidate lessons learned from past and on-going LCC-oriented programs, and to provide the basis for development of an improved and simplified LCC guidance document for the program manager. The methodology used was a combination of literature review and interviews with personnel within ASD currently responsible for various aspects of LCC. The interviews focused primarily on program managers, but included others involved with contracting, testing, engineering, and LCC modeling. The study is organized into areas covering early program considerations, models and data inputs, request for proposal and source selection, negotiation, contracting, and incentive considerations, LCC verification testing, and lessons learned. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A060 500 9/2 14/1

TEXAS A AND M UNIV COLLEGE STATION INST OF STATISTICS

Project Scheduling with Discontinuous Piecewise Convex Activity Cost Functions. (U)

DESCRIPTIVE NOTE: Technical rept.,
SEP 78 25P Robieux,Christian C. ;
Sielken,Robert L., Jr;
REPT. NO. THEMIS-TR-61
CONTRACT: N00014-78-C-0426

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost models, *PERT, Nonlinear programming, Functional analysis, Scheduling, Optimization, Data reduction, Graphs (U)
IDENTIFIERS: Themis project, Project management, Convex programming, MUNR047179 (U)

When an activity can be performed with different techniques, the activity cost function may be a discontinuous piecewise convex function of the activity's duration. This makes the determination of the minimum cost schedule satisfying a specified project deadline a nonconvex problem. However, if an activity may be performed using a combination of the different techniques, the concept of a convex hull can be used to transform the activity's cost function. The resulting convex problem can be solved by the existing PERT procedures. Therefore, this paper extends the applicability of existing PERT procedures to problems with discontinuous piecewise linear or piecewise convex activity cost functions. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A060 346 15/5 14/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Acquisition Costing in the Federal Government. (U)

AUG 78 51P Cheslow,Richard T. ;Dever, James R. ;
REPT. NO. LMI-77-15
CONTRACT: MDA903-77-C-0370

UNCLASSIFIED REPORT

DESCRIPTORS: *Acquisition, *Cost analysis, Planning, Budgets, Procurement, Logistics, Quality assurance, Standardization, Cost models, Cost estimates (U)

The quality of acquisition costing in the Federal Government is generally good. Some problems exist but they can be solved by specific actions covering a small number of people or by expanding current programs, structures or techniques. The primary recommendation is that cost estimating, cost analysis and price analysis become a unified function and that each Department and Agency determine the most effective organizational location and career pattern for unified costing offices. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A059 663 10/2 14/1 15/5 21/7

ARMY TROOP SUPPORT AND AVIATION MATERIEL READINESS COMMAND ST LOUIS MO

Historical Escalation of Operation and Maintenance Costs for Field Generator Sets. (U)

DESCRIPTIVE NOTE: Final rept. FY75-FY78.
JUL 78 36P Gille,Warren H. , Jr;
REPT. NO. TSARCOM-TR-78-7

UNCLASSIFIED REPORT

DESCRIPTORS: *Electric generators, *Cost analysis, Field equipment, Maintenance management, Life cycle costs, Cost estimates, Operation, Cost models, Maintenance, Weighting functions, Price index, Contracts, Reciprocating engines, Diesel engines, Army procurement (U)

This report updates the costs developed for Operating and Maintaining Generator Sets established by the Cost Estimating Relationships (CER's) in TROSCOM Technical Report 74-12. The methodology employed is based on ratio and proportion analysis, wherein each individual component of Operating and Maintenance (O and M) Cost is updated using a specialized index. Then, the cost components are reaggregated into a revised O and M Cost, which more accurately reflects the actual cost than would escalation by a single gross factor. The report covers full load and half load operating costs for most common 60 HZ and 400 HZ Gasoline Engine Driven (GED) Generator Sets, and also those for common 60 HZ Diesel Engine Driven (DED) Generator Sets. The escalation factor for 400 HZ DED Generator Sets is assumed to be the same as that for corresponding 60 HZ DED Generator Sets, using the previous TROSCOM Tech Report 74-12. The complete statement of methodology is included which allows the analysis to be adapted by the user to fit the specific time period desired. The Generator Sets referenced in this Tech Report are used to support various types of equipment; which means that the cost escalation factors provided should be of value in determining O and M Cost for generators used in a variety (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A059 767 5/1 5/9

ADJUTANT GENERAL CENTER WASHINGTON D C

Army Club Management Study 1977. Volume II. Appendices. (U)

DESCRIPTIVE NOTE: Final rept., Mar 77-Apr 78.
APR 78 336P Batts,John H. ;Henderson, R. ;Lee,F. ;Belgrano,R. ;Melcher,J

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A059 833.
DESCRIPTORS: *Management planning and control, *Cost analysis, *Systems analysis, Military facilities, Personnel management, Army procurement, Army training (U)
IDENTIFIERS: Club management, Army club management (U)

The Army Club Management Study 1977 was conducted to review forces impacting upon clubs in the current and future environment, evaluate the Army club system, examine and evaluate alternative organizational structures for the management of Army clubs, address the cost impact of significant curtailment or withdrawal of appropriated fund support for clubs and the need to generate an Army-wide club facility improvement and construction program. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOM07

AD-A059 571 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Cost Analysis on Procuring Improved Technical Order Data for the F-15 Weapon System. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 78 152P Bennett,Robert Wilmer ; Moravek,William D. K. ;
REPT. NO. AFIT-LSSR-27-78A

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Aircraft maintenance, *Cost analysis, Air Force procurement, Maintenance management, Maintenance personnel, Personnel management (U)
IDENTIFIERS: F-16 aircraft, F-15 weapon system (U)

The United States Air Force has expressed strong interest in finding methods of reducing weapon system maintenance cost. One method is to increase the productivity of maintenance personnel by providing better technical data. High maintenance personnel cost makes it imperative that a more efficient, improved, proceduralized TO (PTO) format be developed and utilized. Due to the inherent advantages of PTOs, the F-15 Technical Order Management Agency manager is in the process of evaluating the cost of converting the F-15 TOS to the PTO format. A cost versus benefits analysis of the advantages and disadvantages of PTOs has been accomplished to ass'st top level management in deciding the appropriate type TO option to procure. To accomplish the analysis this thesis identifies the steps in the TO procurement process, expalins the techniques used by McDonnell-Douglas Aircraft Company to develop cost estimates for the F-15 weapon system TOs, describes the advantages of procuring the F-15 weapon system TOs in the PTO format, and estimates where possible the monetary savings derived from the advantages of the improved PTO format. This thesis concludes that the F-15 weapon system technical data should be procured in the PTO format. (Author) (U)

AD-A059 571

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOM07

AD-A059 567 16/4.2 14/1 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Forecasting Depot Overhaul Costs of Tactical Missile Guidance and Control Subsystems. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 78 97P Eichenberger,Joel D. ;
Norville,Donald F. ;
REPT. NO. AFIT-LSSR-9-78A

UNCLASSIFIED REPORT

DESCRIPTORS: *Air to air missiles, *Air to surface missiles, *Life cycle costs, *Design to cost, Cost models, Guided missile components, Guidance, Flight control systems, Maintenance, Repair, Tactical weapons, Mathematical prediction, Estimates, Logistics support, Theses (U)

IAC ACCESSION NUMBER: GC-790217
IAC DOCUMENT TYPE: GACIAC -MICROFICHE-
Recently, increased emphasis has been placed on designing systems for supportability due to the significance of support costs on the total life cycle cost of the system. One of the most important contributors to tactical missile support costs is the cost of depot overhaul of guidance and control subsystems (GCS). Despite its importance, depot overhaul costs are not currently forecast by the operations and support cost model used by Warner Robins Air Logistics Center, the system manager for tactical missiles. Instead, the model requires an externally derived estimate of this cost as input data. However, accurate estimating techniques have not been developed to forecast the cost of tactical missile GCS depot overhaul during system development. The authors, using the technique of multiple linear regression (MLR), identified several physical characteristics of a GCS which are important determinants of depot overhaul cost. These important determinants were then used to develop a cost estimating relationship model for forecasting GCS depot overhaul cost during tactical missile system development. (Author) (U)

IAC SUBJECT TERMS: G--(U)Guided missiles, Guided missile components, Guidance systems, Control systems.

AD-A059 567

UNCLASSIFIED ZOM07

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A059 516 15/5

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume 2. (U)

DESCRIPTIVE NOTE: Final rept. Jun 77-Mar 78.
APR 78 159P Feltus,Erasmus E. :
CONTRACT: F33615-77-C-1105
PROJ: 2003
TASK: 09
MONITOR: AFAL TR-78-49-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A059 354.
DESCRIPTORS: *Avionics, *Cost models, *Cost estimates, *Life cycle costs, *Logistics support, Experimental design, Parameters, Mathematical prediction (U)
IDENTIFIERS: ALPOS(Avionics Laboratory Predictive Operations and Support), PE62204F (U)

Recent DOD experience shows that a prime factor in the evaluation of alternative weapon systems for performing a particular mission is Life Cycle Cost (LCC). Since 70% of the system LCC is determined by the end of the conceptual phase, it is important that techniques to predict LCC be available during the phase. Since system definition is not complete enough in this phase to perform detailed analysis using accounting models, the major tool which can be used is parametric estimating models. This report describes a model which relates the available design parameters to LCC via various cost estimating relationships (CERs). This document is Volume II of the Final Report which describes the mathematical and statistical techniques used to obtain the cost estimating relationships and parametric estimating relationships needed to develop the Avionic Laboratory Predictive Operations and Support (ALPOS) Cost Model. (Author) (U)

AD-A059 516 UNCLASSIFIED PAGE 104

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A059 510 17/9 15/3 15/5

GENERAL ELECTRIC CO SYRACUSE N Y ELECTRONIC SYSTEMS DIV

Unattended Radar Station Design for Dewline Application. Volume II. (U)

DESCRIPTIVE NOTE: Final technical rept. 19 Jul-19 Dec 77.
JAN 78 245P Abriel,W. E. ;Bell,S. E. ;Gerstein,E. J. ;Johnson,R. M. ;Morrow,D. J. ;
CONTRACT: F19628-77-C-0212
MONITOR: ESD TR-78-176-Vol-2

UNCLASSIFIED REPORT

DESCRIPTORS: Radar stations, *Search radar, *Early warning systems, *Logistics support, *Life cycle costs, Arctic regions, Ground stations, Area coverage, Training stations, Cost models, Installation, Reliability (U)
IDENTIFIERS: Unattended radar stations, Availability, Distant early warning system (U)

This report examines the feasibility of implementing and maintaining a string of Unattended Radar Stations in the Arctic. The study is conceptual relative to design, installation, operation, maintenance, and support of Unattended Stations and attendant problems such as security, reliability, maintainability, availability, and life cycle cost. Cost Drivers are identified and potential solution alternatives with recommendations presented. The conclusion is that, with reasonable development, economical Unattended Arctic Radar Stations are possible. (Author) (U)

AD-A059 510 UNCLASSIFIED Z0M07

AD-A059 354 15/5

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model Volume III. (U)

DESCRIPTIVE NOTE: Final rept. Jun 77-Mar 78,
APR 78 39P Turek,John P. ;Wienecke,E. Louis , III;Feltus,Erasmus E. ;
CONTRACT: F33615-77-C-1105
PROJ: 2003
TASK: 09
MONITOR: AFAL TR-78-49-VOL-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A059 164.
DESCRIPTORS: *Avionics, *Logistics support, *Weapon systems, *Life cycle costs, Cost estimates, Cost models, Predictions, Maintenanc (U)
IDENTIFIERS: WUAFAL20030912, PE62204F (U)

Recent DOD experience shows that a prime factor in the evaluation of alternative weapon systems for performing a particular mission is Life Cycle Cost (LCC). Since 70% of the system LCC is determined by the end of the conceptual phase, it is important that techniques to predict LCC be available during that phase. Since system definition is not complete enough in this phase to perform detailed analysis using accounting models, the major tool which can be used is parametric estimating models. This report describes a model which relates the available design parameters to LCC via various cost estimating relationships (CERs). This document is Volume III of the Final Report which describes the consolidated data base utilized to develop the Avionics Laboratory Predictive Operations and Support (ALPOS) cost model. The Air Force Program Monitor was Lt Thomas T. James Jr. (AFAL/AAA-3), System Evaluation Group, Avionic Systems Engineering Branch. (Author) (U)

AD-A059 307 5/1 14/1 5/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Analysis of Forward Pricing Rates and Their Effectiveness in Indirect Cost Management. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 78 111P Jones,Thomas G. ;Volpe, Richard L. ;
REPT. NO. AFIT-LSSR-2-78A

UNCLASSIFIED REPORT

DESCRIPTORS: *Price index, *Cost estimates, *Cost effectiveness, Management planning and control, Cost analysis, Decision making, Military procurement, Rates (U)
IDENTIFIERS: Overhead costs, Cost management (U)

Overhead costs make up a substantial portion of the DOD dollars spent in the procurement of defense systems. Therefore, overhead control has become an area of special concern to government contract managers, and has spurred an increasing amount of manpower at the Air Force Plant Representative Offices, Air Force Contract Management Division, and Contract Maintenance Center Detachments to influence aerospace contractors toward greater efficiency and effectiveness in the area of indirect cost management. This study examined the current indirect cost estimating literature and procedures for establishing forward pricing rates for indirect costs. In addition, forward pricing rate data from various aerospace contractors were analyzed to determine whether there are significant trends or patterns among the forward pricing rates proposed by the contractor, the rates negotiated or recommended by the government, and the rates actually experienced by the contractor during the time period under study. The authors found that there is not a statistically significant difference among the rates proposed by the contractor, the rates negotiated or recommended by the government, and the rates actually experienced by the contractor. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 306 9/2 14/ 15/5

BATTELLE COLUMBUS LABS OHIO

Life Cycle Cost Analysis of Instruction-Set Architecture Standardization for Military Computer-Based Systems. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 78 128P Stone,Harold S. ;
CONTRACT: DAAG29-76-D-0100
PROJ: 1L162701AH92
TASK: 'B1
MONITOR: CORADCOM 78-8

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with California Univ.
DESCRIPTORS: *Computer architecture, *Life cycle costs, Cost analysis, Computer programs, Standardization, Cost models, AN/UYK-7, AN/UYK-20, AN/GYQ-21, Army procurement, Army equipment, Army planning (U)
IDENTIFIERS: AN/UYK-12, AN/UYK-19, PE62701A, ASH92 (U)

A life cycle cost analysis of 78 Army/Navy military computer-based systems is described in order to determine the most cost-effective approach to standardization of computer (instruction-set) architectures. Two basic instruction-set architecture scenarios are considered: (1) standardization upon four widely used military computer architectures (AN/UYK-7, AN/UYK-20, AN/UYK-19 and AN/GYK-12) as computer family architectures (CFA's) and (2) standardization upon a single CFA. The single-CFA scenario is further subdivided into five candidate architectures; i.e. aforementioned four architectures plus AN/GYQ-21 (PDP-11). The life cycle cost model provides for acquisition of the 78 systems in lots of 26 in 1980, 1985 and 1990 and for subsequent deployment over a 10-year period. Military Computer Family (MCF) modules and chassis are employed in all architecture scenarios. Total life cycle cost is defined as the sum of common life cycle cost, hardware life cycle cost of all 78 systems and applications software life cycle cost of all 78 systems. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 290 5/1 15/5 14/1

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND ST LOUIS MO

Development of a Field Labor Rate for Army Aviation Maintenance. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 78 43P Krueger,Earl A. ;Bodden, William E. ;
REPT. NO. USAAVRADCOM-TR-78-40

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft maintenance, *Labor, *Maintenance personnel, *Cost analysis, Army personnel, Maintenance management, Manpower, Economic analysis, Army aviation, Requirements, Costs (U)
IDENTIFIERS: Field Labor Rates (U)

An hourly Labor Rate is developed in this paper for a generic Army direct maintenance person. Weighted averages, based on current AVUM and AVIM TOE's, are utilized to determine the rank, MOS, and flying status of this generic maintenance person. The total cost per man per year is calculated IAW the cost categories specified in DA Pamphlet 11-4. Productive man hours per year (peacetime) are estimated utilizing current estimated maintenance man hour requirements, available man hours per year (combat) and current authorized and required manning for TOE's. The resulting hourly labor rate should be usable in Economic Analyses and minor cost studies. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A059 283 5/3 12/1

SRI INTERNATIONAL ARLINGTON VA STRATEGIC STUDIES CENTER

Deflation of the 18 Sector Soviet Input-Output Tables. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 78 84P Guill,Gene D. :
REPT. NO. SSC-TN-5943-4
CONTRACT: 77-8004691-000

UNCLASSIFIED REPORT

DESCRIPTORS: *Economic models, *Price index, *Input output models, *USSR, Inflation(Economics), Tables(Data), Algorithms, Estimates, Interpolation, Coefficients, Matrices(Mathematics), Weighting functions, Industrial production, Agriculture, Transportation, Econometrics, Macroeconomics (U)
IDENTIFIERS: LPN-SRI-5943 (U)

This technical note represents research undertaken for the SSC's Soviet and Comparative Economics Program in the further development of the SRI-WEFA Econometric Model of the Soviet Union. This report describes work on deflating a series of input-output tables in producers' prices generated for the SRI-WEFA model and aimed at facilitating the better integration of the input-output component of that model with the macroequation system, the latter operating with constant 1970 prices. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A059 224 13/10 5/1

GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS

The Labor Market of the United States Shipbuilding Industry, 1960-1970. (U)

DESCRIPTIVE NOTE: Scientific rept.,
JUN 78 181P Martin,John Charles :
REPT. NO. SERIAL-T-383
CONTRACT: N000014-75-C-0729

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Doctoral thesis.
DESCRIPTORS: *Shipbuilding, *Labor, *Cost analysis, *Attrition, Losses, Geographical distribution, Costs, Manpower, Impact, Industries, Naval personnel, Theses (U)
IDENTIFIERS: Labor market, Wages, WUNR347020 (U)

This study presents a detailed analysis of the labor market of the United States shipbuilding industry. Primary emphasis is given to the wage rates and earnings in shipbuilding and their apparent impact on industry turnover and mobility. It appears that the noncompetitive wages and earnings of older, more experienced workers in shipbuilding results in a loss of these workers to the construction and durable manufacturing industries. To correct this loss, the findings suggest that the wages of older, more experienced shipbuilding workers be increased to levels competitive with those in other industries. In part, the resulting higher wage costs can be offset by dampening pay increases of young workers and through reduced training costs and improved productivity. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A059 222 9/2 5/3 17/9

MITRE CORP BEDFORD MASS

SEEK IGLOO Life Cycle Cost Model. Volume II. User's Manual. (U)

DESCRIPTIVE NOTE: Technical rept.,
JUL 78 159P ferraiolo,J. K. ;James,J. H. ;Moynihan,R. A. ;
REPT. NO. MTR-3577-VOL-2
CONTRACT: F19628-78-C-0001
MONITOR: ESD TR-78-155-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A058 632.
DESCRIPTORS: *Programming manuals, *Life cycle costs, *Radar stations, *User needs, Surveillance, Mathematical models, Maintenance, Interactive graphics, Computer applications, Subroutines, Computer programs (U)
IDENTIFIERS: *SEEK IGLOO radar, SEEK IGLOO project, LPN-Mitre-6260 (U)

An interactive Life Cycle Cost (LCC) mathematical model with a built-in sensitivity analysis capability has been developed for use in the evaluation of proposed designs for the Air Force SEEK IGLOO Radar System. This User's Manual provides the information necessary to run the computerized LCC Model effectively. In addition, a complete discussion of the particular Cost Elements used to calculate Life Cycle Cost is given in Appendix C, and the sensitivity analysis component of the LCC Model is presented in Appendix D. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A059 188 13/9 1/3

HONEYWELL INC ST LOUIS PARK MN AVIONICS DIV

Investigation of a Low-Cost Servoactuator for HYSAS. (U)

DESCRIPTIVE NOTE: Final rept. Apr 77-Mar 78,
JUL 78 90P Hedeen,James O. :
REPT. NO. W0597-FR
CONTRACT: DAAJ02-77-C-0025
PROJ: 1L162114AH73
TASK: 00
MONITOR: USARTL TR-78-30

UNCLASSIFIED REPORT

DESCRIPTORS: *Actuators, *Servomechanisms, Low costs, Performance tests, Test and evaluation, Helicopters, Fluidic amplifiers, Valves, Cylindrical bodies, Breadboard models, Fluid mechanics (U)
IDENTIFIERS: HYSAS(Helicopter Hydrofluidic Stability Augmentation System), Helicopter hydrofluidic stability augmentation system, Servoactuators, Spool valve, Spring centered cylinder, WU001, PE62114A (U)

This document covers the design and testing of a fluidic input servoactuator to perform the series servoactuator function in a helicopter hydrofluidic stability augmentation system (HYSAS). The servoactuator consists of a two-stage fluidic amplifier cascade driving a conventional spool valve that positions a spring-centered cylinder. Simplicity and minimum cost commensurate with essential servoactuator performance was the design goal. A breadboard model servoactuator was designed, fabricated, and bench tested to evaluate feasibility. Servoactuator performance objectives were met at nominal supply conditions, but not over the complete operational oil temperature range. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A059 184 5/1 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Analysis and Computation of a Base Labor Rate for Cost Models of Major Weapon System Acquisition. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 78 73P Knuth,Dale E. ;Unger, Robert F. ;
REPT. NO. AFIT-LSSR-21-78A

UNCLASSIFIED REPORT

DESCRIPTORS: *Labor, *Cost analysis, *Cost models, Rates, Costs, Theses, Weapon systems, Acquisition, Air Force personnel (U)
IDENTIFIERS: Full cost approach, Maintenance cost system, Base labor rates, Indirect costs, Direct costs (U)

The purpose of this thesis was to analyze and compare the Base Labor Rates determined by the full cost approach versus the Maintenance Cost System. If the labor rates were determined to closely approximate each other, then the MCS would be an efficient way to obtain a base level maintenance labor rate. Two bases in the Southeastern United States which support transport aircraft were studied. The elements of cost which make up the Depot Labor Rate were used to facilitate the full cost of the Base Labor Rate. The elements of cost were subdivided into three categories--direct labor, indirect labor, and overhead. The summation of these elements were divided by the manhours available to determine a labor rate. This rate was compared to the rate derived from the MCS. The rates were comparable at one base, but not at the other. The results were inconclusive and further study was recommended. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A059 183 15/3 14/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Conceptual Model of the Department of Defense Major System Acquisition Process. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 78 137P Lawson,Diann ;Osterhus, Damond L. ;
REPT. NO. AFIT-LSSR-20-78A

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Acquisition, *Models, Systems analysis, Procurement, Theses, Costs, Performance(Engineering) (U)
IDENTIFIERS: Cost escalation, Inadequate performance (U)

The Department of Defense's weapon system acquisition process has come under increasing scrutiny by Congress in the last two decades because of increased cost and inadequate performance of its new weapon systems. Many studies have been made on specific aspects of the acquisition process to improve acquisition strategies. As a result, constant changes have been made in the process in an attempt to eliminate problems. However, none of the changes have significantly improved the process. The problem of developing and implementing effective solutions to the acquisition process appear to stem not from valid research but from a lack of understanding of the total system and the environment in which the process operates. The Federal Procurement Institute expressed the desire for a model that would depict the contextual setting of the acquisition process to aid in formulating changes to the process using current research and in directing future research. The authors present a conceptual model of the DoD acquisition process that incorporates the contextual setting of the process, describes the major interactive factors, and captured the influences of these factors on each other as well as on the entire process. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 182 14/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Automatic Test Equipment Software Life Cycle Cost Simulation Model Validation. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 78 150P Novak,Frederick V. ;Winters, Henry , Jr;
REPT. NO. AFIT-LSSR-16-78A

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Test equipment, Automatic, Simulation, Models, Validation, Regression analysis, Computer programs, Theses (U)

This thesis concerns validating a model, developed in 1973 by Air Force Institute of Technology students, Captains Wilson and Morton, which was designed to aid managers in predicting acquisition and support costs of Automatic Test Equipment (ATE) software. The validation effort used the method of differences for coding nominal level data obtained from interviews of software programmers, and analysis of variance and multiple linear regression to derive a relationship between a manhours correction factor, the dependent variable, and Language, Documentation, and Training, the independent variables. Outputs of the model were compared against manhours from historical data on ATE software in the C-5A, B-52, F-111, and F-4 weapon systems. The model's systems parameters were updated, model outputs were changed using FORTRAN statements, and all tables were graphed. Model control cards were changed for compatibility with General Purpose Simulation System 6000 version 2 on the Headquarters Air Force Logistics Command CREATE computer system. The authors concluded the model's predictive capability was good only to a 30% accuracy. Because of major changes in the software life cycle, the model should be restructured before it is used to estimate the cost of ATE software. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A059 169 5/3

SRI INTERNATIONAL ARLINGTON VA STRATEGIC STUDIES CENTER

Price Indexes for Soviet 18-Sector Input-Output Tables for 1959-1975. (U)

DESCRIPTIVE NOTE: Final rept..
JUN 78 112P Treml,Vladimir G. :
REPT. NO. SSC-TN-5943-1
CONTRACT: 77-B004691-000

UNCLASSIFIED REPORT

DESCRIPTORS: *Price index, *Conversion, Information processing, Tables(Data), USSR, Construction, Transportation, Agriculture, Distribution,Economics) (U)
IDENTIFIERS: Input output tables, Agricultural subsidies, LPN-SRI-5943 (U)

This report presents price indexes and supplementary information needed for the conversion of a series of 18-sector Soviet input-output tables in producers' prices for 1959-1975 from current to constant 1970 prices. Appendices present the derivation and documentation of indexes for the industrial sectors, construction, transportation and distribution services, and agriculture. A final appendix describes and documents adjustments needed due to agricultural subsidies. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A059 164 1/3 5/1

WESTINGHOUSE ELECTRIC CORP HUNT VALLEY MD

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume I. (U)

DESCRIPTIVE NOTE: Final rept. Jun 77-Mar 78.
APR 78 182P Turek,John P. ;Louis Wienecke,E. , III;Feltus,Erasmus E. ;
CONTRACT: F33615-77-C-1105
PROJ: 2003
TASK: 09
MONITOR: AFAL TR-78-49-VOL-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Avionics, *Cost estimates, *Cost models, Life cycle costs, Computer applications, Predictions, Air Force planning, Logistics support, Operations research, Computer programs, FORTRAN (U)
IDENTIFIERS: WUAFAL20030912, PE62204F (U)

Recent DOD experience shows that a prime factor in the evaluation of alternative weapon systems for performing a particular mission is Life Cycle (LCC). Since 70% of the system LCC is determined by the end of the conceptual phase, it is important that techniques to predict LCC be available during that phase. Since system definition is not complete enough in this phase to perform detailed analysis using accounting models, the major tool which can be used is parametric estimating models. This report describes a model which relates the available design parameters to LCC via various cost estimating relationships (CERs). This document is Volume I of the Final Report which describes the development of a model for the Air Force Avionics Laboratory, the Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. The ALPOS model's CERs are utilized to estimate operating and support costs of avionics line replaceable units (LRUs). The Air Force Program Monitor was Lt Thomas G. James, Jr., System Evaluation Group (AFAL/AAA-3), Avionic Systems Engineering Branch. (Author) (U)

AD-A059 164

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A059 008 1/5 9/2 14/1

ARINC RESEARCH CORP ANNAPOLIS MD

User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume III. User's Manual and Program Documentation for the Facilities Maintenance Cost Model. (U)

DESCRIPTIVE NOTE: Final rept. Mar-Sep 76.
MAY 78 49P Greene,L. B. ;Witt,J. ; Sternberg-Powidzki,M. ;
CONTRACT: DOT-TSC-1173
MONITOR: FAA-AFF,TSC 220-78-01-3,FAA-78-1.3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A059 007.
DESCRIPTORS: *Air traffic control terminal areas, *Cost models, *Computerized simulation, *Computer programs, Manuals, Delay, Scheduling, Maintenance management, Approach, Preventive maintenance, Manpower, Cost analysis, Test and evaluation, Weather forecasting (U)
IDENTIFIERS: Boston Terminal Control Area, User delay cost model, UDCM(User Delay Cost Model) (U)

The Facilities Maintenance Cost Model (FMCM) is an analytic model designed to calculate expected annual labor costs of maintenance within a given FAA maintenance sector. The model is programmed in FORTRAN IV and has been demonstrated on the CDC Kronos time-sharing system. Model inputs are facility identification data, maintenance support scenarios, and facility reliability and maintainability data. The principal model outputs include the expected annual direct labor and salary costs of maintaining a specific facility type within a sector, the required number of personnel by skill level for that facility type, the costs of preventive maintenance and corrective maintenance, and the costs of call-backs. The model also provides total cost and labor data on all of the facilities within the sector. This is the third of three volumes. Volume I documents the model formulation and demonstration. Volume II is a user's manual and contains the program documentation (U)

AD-A059 008

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A059 007 1/5 14/1 9/2

ARINC RESEARCH CORP ANNAPOLIS MD

User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume I. Model Formulation and Demonstration. (U)

DESCRIPTIVE NOTE: Final rept. Mar-Sep 76.
MAY 78 125P Greene,L. B. ;Witt,J. ; Sternberg-Powidzki,M. ;
CONTRACT: DOT-TSC-1173-1
MONITOR: FAA-AAF,TSC 220-78-01-1,FAA-78-1.1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A058 984.
DESCRIPTORS: *Air traffic control terminal areas, *Cost models, *Computerized simulation, Maintenance management, Delay, Scheduling, Approach, Preventive maintenance, Manpower, Cost analysis, Test and evaluation, Weather forecasting (U)
IDENTIFIERS: User delay cost model, UDCM(User Delay Cost Model), Boston Terminal Control Area, FMCM(Facility Maintenance Cost Model), Facility maintenance cost model (U)

The User Delay Cost Model (UDCM) is a Monte Carlo computer simulation of essential aspects of Terminal Control Area (TCA) air traffic movements that would be affected by facility outages. The model can also evaluate delay effects due to other factors, such as weather, aircraft schedule intensity, and approach minima. Although the Boston TCA was selected as the study vehicle for development and demonstration, the model is structured so that it can be applied to other TCAs. The Facility Maintenance Cost Model (FMCM) is designed to evaluate the expected annual labor cost of maintaining FAA facilities within a maintenance sector. The model was developed for time-share computer application and can evaluate both the preventive maintenance and corrective maintenance required by any single facility (e.g., a visual omni-range or VOR), accumulate staffing and cost data on similar facilities (e.g., all VORs) within the specified maintenance sector. (U)

AD-A059 007

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A058 984 1/5 14/1 9/2

ARINC RESEARCH CORP ANNAPOLIS MD

User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume II. User's Manual and Program Documentation for the User Delay Cost Model. (U)

DESCRIPTIVE NOTE: Final rept. May-Sep 76.
MAY 78 195P Greene,L. B. ;Witt ,J. ; Sternberg-Powidzki,M. ;
CONTRACT: DOT-TSC-1173
MONITOR: FAA-AAF,TSC 220-78-01-2,FAA-78-1.2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A059 008.
DESCRIPTORS: *Air traffic control terminal areas, *Cost models, *Computerized simulation, *Computer programs, Manuals, Delay, Scheduling, Maintenance management, Approach, Preventive maintenance, Manpower, Cost analysis, Test and evaluation, Weather forecasting (U)
IDENTIFIERS: Boston terminal control area, User delay cost model, UDCM(User Delay Cost Model) (U)

The User Delay Cost Model (UDCM) is a Monte Carlo simulation of certain classes of movement of air traffic in the Boston Terminal Control Area (TCA). It incorporates a weather module, an aircraft generation module, a facilities module, and an air control module to simulate delays resulting from facility outage, imposed on four user classes: Air Carrier, Air Taxi, General Aviation, and Military Aircraft. The model can also be used to measure delays due to changing aircraft arrival rates, weather and other environmental considerations, approach types available, or any other factor that affects trail separation in final approach of the maximum number of aircraft an air controller can handle. This is the second of three volumes. Volume I documented the model formulation and demonstration. Volume III is a user's manual and program documentation for the facilities maintenance cost model. (Author) (U)

AD-A058 984

UNCLASSIFIED Z0MO7

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A058 876 12/1 14/1

BROWN UNIV PROVIDENCE R I DIV OF APPLIED MATHEMATICS

Approximation Methods for the Minimum Average Cost Per Unit Time Problem with a Diffusion Model. (U)

DESCRIPTIVE NOTE: Interim rept.,
78 25P Kushner,Harold J. :
CONTRACT: N00014-76-C-0279, AFOSR-76-3063
PROJ: 2304
TASK: A1
MONITOR: AFOSR TR-78-1359

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: Sponsored in part by grant NSF-ENG73-03846.
DESCRIPTORS: *Control theory, *Cost analysis, Diffusion theory, Dynamic programming, Approximation(Mathematics), Functional analysis, Markov processes, Weak convergence, Optimization, Covariance (U)
IDENTIFIERS: Martingales, Wiener processes, PE61102F, WUAFOSR2304A1 (U)

Approximation methods for the minimum average cost per unit time problem with a controlled diffusion model is treated. In order to work with a bounded state space, the reflecting diffusion model of Strook and Varadhan is used, although other models can also be treated. The control problem is approximated by an average cost per unit time problem for a Markov chain, and weak convergence methods are used to show convergence of the minimum costs to that for the optimal diffusion. The procedure is quite natural and allows the approximation of many interesting functionals of the optimal process. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A058 632 9/2 5/3 17/9 15/5

MITRE CORP BEDFORD MASS

SEEK IGLOO Life Cycle Cost Model. Volume III. Maintenance Manual. (U)

DESCRIPTIVE NOTE: Technical rept.,
JUL 78 157P Ferraiolo,J. K. :
REPT. NO. MTR-3577-VOL-3
CONTRACT: F19628-78-C-0001
MONITOR: ESD TR-78-155-VOL-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Programming manuals, *Life cycle costs, *Computer programs, Maintenance, Radar equipment, Mathematical models, Computer applications, Fortran, Interactive graphics, Subroutines, Input output processing (U)
IDENTIFIERS: Seek igloo radar, Seek igloo project, LPN-Mitre-6260 (U)

An interactive Life Cycle Cost (LCC) mathematical model with a built-in sensitivity analysis capability has been developed for use in the evaluation of proposed designs for the Air Force SEEK IGLOO Radar System. This Maintenance Manual provides the information necessary to maintain, or possibly modify, the FORTRAN code of the LCC Model. It contains a complete discussion of the structure, conventions, subroutines, etc., of the LCC Model computer program. A complete listing of the FORTRAN code of the LCC Model, which contains extensive internal comments, is included in the Maintenance Manual. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A058 575 5/4 14/1

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

Optimizing the Cost Effectiveness of Military Corrections; An Assessment of Program Evaluations and Related Data. (U)

DESCRIPTIVE NOTE: Final rept..
JUN 78 165P Embert,Paul S. , Jr;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.
DESCRIPTORS: *Cost effectiveness, *Corrections, *Military law, *Criminal justice system, Optimization, Theses, Confinement(General), Punishment, Rehabilitation (U)
IDENTIFIERS: Program evaluation, Program assessment, Military corrections, Civil suit (U)

This study attempted to identify possible changes to the overall military corrections system and determine which are cost effective and feasible. Methodologically, the research entailed ex post facto research, coupled with unstructured observations. Program evaluations and observations provided original data; assessments of evaluations allowed consideration of more material than was directly possible during the time alloted for the effort. Adoption of a crime prevention model and development of a correctional decision model provided structure to the research. Investigation revealed that there are a variety of means whereby correctional expenditures can be decreased, without significant adverse consequences to society, military discipline, or criminal recidivism. These include adaptation of new correctional approaches and modifications within the existing system. Several other general and specific conclusions resulted in the formulation of a decisional matrix, which can be used as an aid in evaluating various correctional alternatives. The inquiry also revealed a lack of a clearly defined correctional objective, which detracts from cost effective or cost benefit analyses of the options available to the military, as well as other issues warranting further exploration. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A058 559 15/2 12/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Methodology for Establishing Equipment Utilization Standards. (U)

DESCRIPTIVE NOTE: Interim rept..
JUL 78 83P Lindow,Edward S. ; Chovichien,V. ;
REPT. NO. CERL-IR-M-247
PROJ: 4A762731AT41
TASK: 09

UNCLASSIFIED REPORT

DESCRIPTORS: *Army equipment, *Mathematical models, Utilization, Management, Standards, Economic analysis, Costs, Automation, Sensitivity, Optimization (U)
IDENTIFIERS: Model parameters, Ownership costs, Operating costs, WU031, AST41, PE62731A (U)

This report describes the first phase of a project designed to aid Army Facilities Engineers in improving equipment management. A rational basis for establishing equipment utilization standards was developed based on economic analyses of owning and operating costs. Mathematical models and automated procedures for their application are presented to compute minimum and objective utilization standards for equipment categories. Sample results are provided and the sensitivity of the model parameters is evaluated. Recommendations for implementing the utilization standards are also given. Results can be used in an equipment management program to establish uniform criteria for justifying equipment ownership and for gauging optimal equipment utilization. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A058 335 5/9

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

The Aviation Career Incentive Act of 1974: An Analysis of Short-Range Results in the United States Air Force, 1974-1977. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 78 97P McAlear,Kenneth E. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.
DESCRIPTORS: *Aeronautics, *Aviation personnel, *Careers, *Retention(General), *Costs, *Pilots, *Navigators, Policies, Systems analysis, Air Force research, Air Force personnel, Officer personnel, Inequalities, The (U)
IDENTIFIERS: Aviation Career Incentive Act 1974, Flight pay system, Gate system (U)

This study analyzes the effects of the new flight pay system embodied in the Aviation Career Incentive Act of 1974 as it applies to rated Air Force officers. The analysis examines data on attraction, retention, cost, and workability of the gate system in an effort to determine if the Act is meeting its goals and objectives. This paper also discusses inequities in flight pay systems, past and present. Analysis reveals that the Act is not the panacea that Congress thought it would be. Attraction to a flying career, while still not a problem, has apparently not been effected by the Act. Retention of young pilots and navigators has not improved appreciably, if at all, since passage of the Act. Costs for flight pay in the Air Force have gone down, but so has the size of the force. While most rated officers are currently meeting their gates, this may not be indicative of future results due to liberal, implementing, credit policies and the gradual decline of flying opportunities. While this analysis is based on a short period of time, the results indicate a need for close monitoring and re-examination of the flight pay system by the U.S. Air Force. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A058 278 5/1 13/8 19/1

DAYRON CORP ORLANDO FLA

Production Engineering Program to Develop Improved Mass-Production Process for M42/M46 Grenade Bodies. (U)

DESCRIPTIVE NOTE: Final rept.
MAR 78 87P
CONTRACT: DAAK10-77-C-0050

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DDC reproductions will be in black and white.
DESCRIPTORS: *Grenades, *Manufacturing, *Production engineering, *Cost effectiveness, Engineering, Mass flow, Costs, Army equipment, Flow charting, Reliability, Safety, Munitions industry, Quality assurance (U)
IDENTIFIERS: M42 grenades, M46 grenades (U)

This report describes the work performed by Dayron Corporation under Contract DAAK10-77-C-0050 for the development of a new process for manufacturing M42/M46 grenade bodies at reduced cost without jeopardizing munition effectiveness, safety or reliability. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A058 273 5/1 14/1 15/5

CALIFORNIA UNIV LOS ANGELES WESTERN MANAGEMENT SCIENCE INST

Making Better Use of Optimization Capability in Distribution System Planning. (U)

JAN 78 46P Geoffrion,Arthur M. :
REPT. NO. WMSI-WORKING PAPER-279
CONTRACT: N00014-75-C-0570

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Portions presented at the ORSA/TIMS/AIIE Distribution Conference, Feb 78, Hilton Head, SC.
DESCRIPTORS: *Distribution, *Optimization, *Planning, *Costs, *Logistics, Facilities, Sensitivity, Systems analysis, Industries, Food, Automotive components, Mines(Excavations), Mathematical analysis (U)
IDENTIFIERS: Consumer products, Distribution systems (U)

To have an efficient optimization technique for a class of problems is to have no more than a tool. Like any tool, it can be used well or poorly. This paper is about how to use one such tool for distribution planning problems (see the companion piece by A. Geoffrion, G. Graves and L. Lee,' 'Strategic Distribution System Planning: A Status Report,' Working Paper 272A, March 1978). Discussion centers on four topics of importance in practical applications: the relationship between system cost and the number of distribution facilities, sensitivity analysis, robustness analysis, and implementation priority analysis. Each of these topics requires the use of optimization in ways that are sometimes less than obvious. Several illustrations are drawn from actual applications in the auto parts, consumer products, food, and mining industries. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MC7

AD-A058 272 14/1 17/7

SYSTEMS CONTROL INC PALO ALTO CALIF

Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume I. (U)

DESCRIPTIVE NOTE: Final rept. on Task 9.
APR 78 96P Solomon,H. L. :
CONTRACT: DOT-FA75WA-3662
MONITOR: FAA-ASP 76-3-VOL-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A058 228.
DESCRIPTORS: *Navigation, *Life cycle costs, *Economic analysis, *Cost effectiveness, Test and evaluation, Models, Computer programs, Costs, Systems analysis, Alaska, Offshore, Impact, Civil aviation, Loran, Omega navigation, Avionics (U)
IDENTIFIERS: Navigation systems, CONUS, DME guidance, Loran-C, GPS(Global Positioning System), VOR navigation (U)

This report summarizes a study whose objectives were to: Develop a life cycle cost computer model to evaluate various alternative civil aviation navigation systems; Project government implementation and recurring costs and user avionics costs associated with each alternative; Develop rational implementation/transition scenarios for various combinations of the systems to provide civil air navigation coverage in the CONUS, Alaska, Oceanic and Off-shore regions; and Make an initial assessment of the economic impact upon the FAA and civil aviation users for each scenario. Alternatives evaluated were VOR/DME, Loran-C, Omega, Differential Omega, and GPS. The least costly alternative, based upon combined civil user and FAA costs, was found to be continued use of VOR/DME. Sole use of GPS was found to be the most costly alternative. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A058 250 5/1 5/3

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CALIF

Life Cyc'e Navy Enlisted Billet Costs--
FY78. (U)

DESCRIPTIVE NOTE: Special rept.,
JUN 78 36P Martin,Jim I. ;Koehler,
Ernest A. ;Mairs,Lee S. :
REPT. NO. NPRDC-SR-78-14
PROJ: Z0109
TASK: Z0109PN

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Rept. no. NPRDC-SR-77-16 dated Sep 77.
DESCRIPTORS: *Life cycle costs, *Billets(Personnel), *Enlisted personnel, Life cycles, Naval shore facilities, Housing(Dwellings), Naval personnel, Manpower, Personnel management, Mathematical models, Systems engineering, Systems management, Design to cost, Cost models (U)
IDENTIFIERS: PE63707N, WUZ0109PN03 (U)

This report is the second in a series designed to provide hardware system managers, systems designers, and design engineers with objective manpower resources and life-cycle billet cost data upon which to base design decisions. It supersedes the first report issued--NPRDC Special Report 77-16 of September 1977, which presented life-cycle Navy enlisted billet costs based on FY77 data. Other design tools being developed under this effort are listed in the section entitled 'Future Plans.' (U)

AD-A058 250 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A058 228 14/1 17/7

SYSTEMS CONTROL INC PALO ALTO CALIF

Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume II. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 78 409P Solomon,M. L. :
CONTRACT: DOT-FA75WA-3662
MONITOR: FAA ASP-76-3-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A058 272.
DESCRIPTORS: *Navigation, *Life cycle costs, *Economic analysis, *Cost effectiveness, Test and evaluation, Models, Computer programs, Costs, Systems analysis, Alaska, Offshore, Impact, Civil aviation, Loran, Omega navigation, Avionics (U)
IDENTIFIERS: Navigation systems, Conus, DME guidance, Loran-C, GPS(Global Positioning System), VOR navigation (U)

This report summarizes a study whose objectives were to: Develop a life cycle cost computer model to evaluate various alternative civil aviation navigation systems; Project government implementation and recurring costs and user avionics costs associated with each alternative; Develop national implementation/transition scenarios for various combinations of the systems to provide civil air navigation coverage in the CONUS, Alaska, Oceanic and Offshore regions; and Make an initial assessment of the economic impact upon the FAA and civil aviation users for each scenario. Alternatives evaluated were VOR/DME, Loran-C, Omega, Differential Omega, and GPS. The least costly alternative, based upon combined civil user and FAA costs, was found to be continued use of VOR/DME. Sole use of GPS was found to be the most costly alternative. (U)

AD-A058 228 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0107

AD-A058 225 9/3

CALIFORNIA UNIV BERKELEY ELECTRONICS RESEARCH LAB

Applications of Analog Sampled Data Signal Processing to Low-Cost Speech Bandwidth Compression. (U)

DESCRIPTIVE NOTE: Semi-annual rept. for period ending 1 Mar 78,
78 11P Brodersen,R. W. ;Gray,P. R. ;
CONTRACT: N00173-77-C-0238, ARPA Order-3424

UNCLASSIFIED REPORT

DESCRIPTORS: *Vocoders, *Speech compression, Analog systems, Low costs, Narrowband, Signal processing, Analog to digital converters, Correlation techniques, Delay lines, Low pass filters (U)
IDENTIFIERS: Large Scale Integration (U)

The basic objective of this contract is to apply MOS-LSI techniques to the problem of narrow band vocoding. In particular, analog sampled data techniques are being used to implement the high speed processing required in an autocorrelation type linear predictive coder (LPC) and decoder. The remaining processing will then be performed in a relatively low speed (and therefore low cost) microprocessors. Also important in a complete narrow band vocoder is a pitch tracker. The method being investigated for this function is a modified version of the Gold-Rabiner time domain algorithm implemented using a hybrid analog-digital approach. This report will be a brief summary of the present state of the work on the above three components of a complete LPC vocoder. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0107

AD-A058 137 12/2

GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS

Minimizing a Project Cost with Bounds on the Expectation and Variance of the Delay Time. (U)

DESCRIPTIVE NOTE: Scientific rept.,
JUN 78 15P Falk,James E. ;
REPT. NO. SERIAL-T-381
CONTRACT: N00014-75-C-0729

UNCLASSIFIED REPORT

DESCRIPTORS: *Scheduling, *Nonlinear programming, Delay, Queueing theory, Algorithms, Sequences, Cost estimates, Theorems (U)
IDENTIFIERS: NUMR347020 (U)

A problem is discussed involving a project consisting of a number of tasks, each of which must be performed in a sequential manner. Any of the tasks is subject to a potential delay of known duration beyond its scheduled starting time. The task delay times may be decreased with the addition of funding. We seek to minimize the cost of completing the project, subject to bounds on both the expectation and variance of the total delay time. An algorithm is presented to solve the general problem. An example illustrates the method. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A057 992 5/1 14/1 14/2

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Rate Stabilization at Navy Industrial Fund Research, Development, Test and Evaluation Activities. (U)

DESCRIPTIVE NOTE: Master's thesis,
JUN 78 126P Green,Donald Truman ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Budgets, *Costs, *Rates, *Naval research laboratories, Accounting, Questionnaires, Theses, Cost analysis, Cost effectiveness, Stabilization, Research management, Test and evaluation (U)
IDENTIFIERS: Rate stabilization, Financial statements, Billing, Funding (U)

The 13 Navy industrially funded RDT and E activities implemented rate stabilization in October 1976 under protest. With rate stabilization, DOD industrially funded activities bill their customers on the basis of stabilized billing rates that cannot be adjusted during the fiscal year as costs change. A basic objective is to allow customers to plan for cost escalation during the fiscal year as costs change. A basic objective is to allow customers to plan for cost escalation during a fiscal year by using rates established up to 15 months in advance of the fiscal year start. This thesis examines the operating results of rate stabilization at NIF RDT and E activities 18 months after implementation, in order to determine the degree of success in meeting rate stabilization objectives. Questionnaires and Financial Statements were used to gain research data. Conclusions are that the RDT and E activities and their customers have opinions that rate stabilization entails more disadvantages than advantages. Rate stabilization is not meeting the objective for which it was implemented since a majority of the RDT and E customers use the rates in budgeting. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A057 951 12/2 5/3

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Dynamic Theory of Production Correspondences. Part III. (U)

DESCRIPTIVE NOTE: Research rept.,
APR 78 63P Shephard,Ronald W. ;Faere, Rolf ;
REPT. NO. ORC-78-4
CONTRACT: N00014-76-C-0134, NSF-MCS77-16054

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Part 1, AD-A057 950.
DESCRIPTORS: *Production engineering, *Dynamic programming, *Cost analysis, Functional analysis, Systems analysis, Price index (U)
IDENTIFIERS: Dynamic production functions, Duality theory, Cost benefits (U)

Chapters 7 thru 9 of a monograph on a Dynamic Theory of Production Correspondences are presented. Dualities and Shadow Pricing, Index Functions for Production Theory and Indirect Dynamic Production Correspondences are discussed. (Author) (U)

AD-A057 810 5/1 15/4

ARMY ARMAMENT MATERIEL READINESS COMMAND ROCK ISLAND IL SYSTEMS ANALYSIS DIRECTORATE

Systems Analysis Directorate. Activities Summary, May 1977. (U)

DESCRIPTIVE NOTE: Final note.
JUN 78 36P
REPT. NO. DRSAR/SA/N-78

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Army equipment, *Cost analysis, *Army planning, *Systems analysis, Costs, Cost estimates, Predictions, Budgets, Protective masks, Howitzers, Recoilless guns, Mortars, Ammunition, Cost effectiveness, Production control (U)
IDENTIFIERS: Engineering in Direct Support of Production(EDSP), M-8 alarms, M-29A1 mortars, M-67 recoilless rifles, M-109A1 howitzers(155-mm), M-109A18 howitzers(155-mm), M-109A2 howitzers(155-mm), M-174 protective masks, M-193 ammunition(5.56mm) (U)

The purpose of this study was to compare the Engineering in Direct Support of Production (EDSP) costs from FY 74 through FY7T for selected items and to provide a basis for comparing and predicting future costs for budget planning. A review of six items showed that the average percent of the total program costs represented by the EDSP charges ranged from 1.78% for the 5.56mm cartridge to 10.42% for the M8 alarm series. Total EDSP charges for these six items represented 2.10% of total program costs. The sample size was too small and time period represented too short to identify commonalities in these EDSP costs that might be used for predicting. The recommendation was made that a standard 3% for EDSP for each end item be included in the budget. Significant deviations would have to be fully justified on an exception basis. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A057 444 5/4 12/1 17/9

MITRE CORP BEDFORD MASS

SEEK IGLOO Life Cycle Cost Model. Volume I. Cost Element Equations. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 78 61P Moynihan,R. A. ;Stein,W. M. ;
REPT. NO. MTR-3577-VOL-1
CONTRACT: F19628-78-C-0001
MONITOR: ESD TR-78-155-VOL-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Cost models, *Mathematical models, *Mathematical analysis, *Search radar, Cost analysis, Equations, Sensitivity, Test and evaluation, Air Force training, Computerized simulation, Data bases, Computer programs, FORTRAN, Logistics support, Maintenance, Repair, Inventory (U)
IDENTIFIERS: SEEK IGLOO Radar System, LPN-MITRE-6260 (U)

An interactive Life Cycle Cost (LCC) Mathematical model with a built-in Sensitivity Analysis capability has been developed for use in the evaluation of proposed designs for the Air Force SEEK IGLOO Radar System. The SEEK IGLOO LCC Model consists of 10 cost elements which describe acquisition costs as well as operation and support costs. This volume presents the equations for these cost elements. Also included is a full discussion of the assumptions made which impact the development of these cost element equations. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A057 343 14/1 15/3

CENTER FOR PLANNING AND RESEARCH INC PALO ALTO CALIF

Methods for Estimating Effectiveness and Cost of Civil Defense Program Elements. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 78 127P Strope,Walmer E. ;Devaney, John F. ;
CONTRACT: DCPA01-77-C-0223

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Cost effectiveness, *Civil Defense, Cost estimates, Mathematical models, Methodology, Casualties, Reduction, Vulnerability, Emergencies, Operational readiness, Preparation, Cost analysis, Computer programs (U)
IDENTIFIERS: Measures of effectiveness, Scenarios (U)

Two related methods of assessing the cost-effectiveness of civil defense program elements in reducing casualties are presented, one a hand calculation procedure and the other a computer routine adapted to the current DCPA casualty assessment program. The methods employ a defense scenario that accounts for changes in population vulnerability brought about by emergency operations and human behavior. Demonstration results are provided. Recommendations are made for further development. (Author) (U)

AD-A057 343 UNCLASSIFIED PAGE 121

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A057 291 5/1 13/10

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Case Study: FFG-7 Class Ship. (U)

DESCRIPTIVE NOTE: Master's thesis,
JUN 78 63P Easton,Frederick Bigelow :

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, Frigates, Naval procurement, Learning curves, Shipbuilding, Guided missile ships, Case studies, Design to cost, Life cycle costs, Acquisition, Theses (U)
IDENTIFIERS: FFG 7 class vessels (U)

Estimating the cost of a major weapons system is an extremely complex process involving interrelationships between a number of organizations. This thesis is an examination of the events surrounding the cost estimating effort involved for the FFG class ship using a case study approach. The case discusses concepts involved in the FFG procurement which include the high-low mix, design to cost, life cycle costing, lead ship/follow-on ship procurement, fly before buy, independent cost estimating, and learning curve theory. A teaching note is provided to stimulate classroom discussion and analysis of the major areas covered in the case. Questions which may be used in classroom discussion or for assignment and the essentials of learning curve theory are also provided. (Author) (U)

AD-A057 291 UNCLASSIFIED Z0M07

AD-A056 996 17/2 20/12

RAYTHEON CO WALTHAM MASS RESEARCH DIV

Cost-Effective GaAs Read IMPATT Transmitters. (U)

DESCRIPTIVE NOTE: Final rept. 29 Mar 76-31 Oct 77,
MAY 78 786P Wallace,R. N. ;
REPT. NO. S-2294
CONTRACT: F30602-76-C-0143
PROJ: 4600
TASK: 18
MONITOR: RADC TR-78-81

UNCLASSIFIED REPORT

DESCRIPTORS: *Impatt diodes, *Microwave equipment, *Data links, Gallium arsenides, Power amplifiers, Cost effectiveness, Strip transmission lines, Epitaxial growth, C band, Frequency modulation, Continuous waves (U)
IDENTIFIERS: Read diodes, Power combiners, TIM(Tapped-Inverted Microstrip), Tapped Inverted Microstrip, PE62702F, WURADC46001820 (U)

The objective of this program was to develop a low-cost 5-GHz 40-W FM CW transmitter, using GaAs Read IMPATT diodes as RF power-generating elements, suitable for data-link applications. The transmitter actually produced during the course of the program met most of the RF performance goals established initially, but the goals for size, weight, cost, and primary power consumption were not achieved. The transmitter system was divided into four major subassemblies; a VCO-driver, a multidiode output stage, a multichannel current regulator, and a DC-to-DC inverter. The VCO-driver produced a 3.3W CW output in the 4.97 - 5.03 GHz operating band, and was capable of more than 20 MHz peak-to-peak frequency deviation with modulating frequencies between 50 kHz and 12 MHz. The output stage combined four high-power single-diode modules, operating in the injection-locked oscillator mode, through a nonresonant multiport hybrid. Compact coaxial cavity oscillator circuits were used for the diode modules. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A056 991 21/5

VOUGHT CORP DALLAS TEX

Ramjet Cost Estimating Handbook. (U)

DESCRIPTIVE NOTE: Technical rept. Apr 76-Jan 77,
MAY 78 326P Emmons,H. T. ;Norwood,D. L. ;Rasmusen,J. E. ;Reynolds,Homer E. ;
CONTRACT: F33615-76-C-2043
PROJ: 3012
TASK: 08
MONITOR: AFAPL,CPIA TR-77-50-VOL-2,PUB-288

UNCLASSIFIED REPORT

Available from National Technical Information Service, Springfield, VA. 22161. PCS 100.00. MFS/100.00. No copies furnished by DDC.
SUPPLEMENTARY NOTE: See also Rept. no. AFAPL-TR-77-50-VOL-1, AD-A054 856.
DESCRIPTORS: *Ramjet engines, *Handbooks, *Cost analysis, *Cost estimates, *Production, Costs, Methodology, Parts, Fuels, Ducted rockets, Cost models, Solid fuels, Jet engine fuels, Liquids (U)
IDENTIFIERS: Data sheets (U)

This ramjet cost handbook is a result of work conducted under Air Force Contract F33615-76-C-2043 to generate cost data and to establish a cost methodology that will accurately predict the production costs of ramjet engines. The cost handbook contains a description of over one hundred and twenty-five different components which are defined as baseline components. The cost estimator selects from the handbook the appropriate components to fit his ramjet assembly, computes the cost from cost computation data sheets in the handbook, and totals all of the appropriate cost elements to arrive at the total engine cost. The methodology described in the cost handbook addresses many different ramjet types from simple podded arrangements of the liquid fuel ramjet to the more complex integral rocket/ramjet configurations including solid fuel ramjets and solid ducted rockets. It is applicable to a range of sizes from 6 in. diameter to 18 in. diameter and to production quantities up to 5000 engines. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A056 981 17/2 15/7 9/2

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix F. Computer Models for LCC. (U)

JUN 78 125P
REPT. NO. TTO-ORT-032-78B-V3-AP-F

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: Supersedes report dated May 76, AD-A027 643. Appendix F to report dated Apr 78, AD-A055 147.
DESCRIPTORS: *Tactical communications, *Cost effectiveness, *Life cycle costs, *Computerized simulation, Computer programs, Communication equipment, Joint military activities, Management planning and control, Logistics support, Military requirements, Maintenance personnel, Digital computers, Estimates, FORTRAN (U)
IDENTIFIERS: HP 9821A computers (U)

This appendix has been revised to update and correct some of the factors and cost estimating relationships (CER's) contained in the 1976 issue. This revision describes and documents computer models for CER's and presents sample life cycle cost calculations using the models. It also includes a revised FORTRAN IV Program User's Guide incorporating military personnel and training costs as part of it's costing methodology. The TRI-TAC Life Cycle Cost Element Structures from Volume III is used for formatting output costs. New features have also been added which will assist in formatting the estimates in a manner suitable for CAIG/DSARC presentations. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A056 936 17/7 14/1

ARINC RESEARCH CORP ANNAPOLIS MD

Avionics Cost Development for Civil Application of Global Positioning System. (U)

DESCRIPTIVE NOTE: Interim rept.,
JUL 78 32P Kowalski,S. H. :
REPT. NO. 1326-01-4-1771
CONTRACT: DOT-FA76WA-3788

UNCLASSIFIED REPORT

DESCRIPTORS: *Global positioning system, *Avionics, *Cost analysis, Systems engineering, Cost estimates, Civil aviation (U)

This study of costs for avionics for civil use of the Global Positioning System (GPS), performed for the FAA Office of Systems Engineering Management (OSEM), was based on a uniform approach to cost estimating with the assistance of a pricing model. The system evaluated is the military-developed Z set with appropriate packaging modifications to meet the requirements of air carrier avionics standards and the less stringent environmental and packaging requirements for general aviation. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0N07

AD-A056 907 17/2 14/1 15/7

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume V. TRI-TAC Stylized Nodal Descriptions. (U)

JUN 78 68P
REPT. NO. TTO-ORT-032-78-V5

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: See also Volume 3, AD-A055 147.
DESCRIPTORS: *Tactical communications, *Cost effectiveness, Telephone equipment, Trade off analyses, Cost models, Nodes, AN/TTC-42, Joint military activities, Communications networks, Communication switching centers, Military requirements, Defense planning (U)
IDENTIFIERS: AN/TTC-39 (U)

The purpose of this volume is to identify a limited number of typical stylized nodal models that have been developed by the TRI-TAC Office to define a range of alternatives for various types of cost effectiveness studies. Eleven nodal types are identified; four contain AN/TCC-39 switches, four are based on the AN/TCC-42, and three address the SB-3865 unit level switchboard. Each node is described in terms of a block diagram which shows its major elements and how they will be interconnected. Specific details of each node are presented and additionally, variations of the nodal configurations can be readily developed by either (1) revising one or more of the ground rules which changes the equipment allocations; or (2) varying the major assemblies in a 'stylized' node. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0N07

AD-A056 530 1/3 14/1 9/2 5/1 14/4

DYNAMICS RESEARCH CORP WILMINGTON MASS

Digital Avionics Information System (DAIS). Volume I. Reliability and Maintainability Model. (U)

DESCRIPTIVE NOTE: Final rept. May 75-Jul 77.
APR 78 62P Czuchry,Andrew J. ;Glasier, John M. ;Kistler,Robert H. ;Bristol,Marjorie A. ;Baran,H. Anthony ;
CONTRACT: F33615-75-C-5218
PROJ: 2051
TASK: 00
MONITOR: AFHRL TR-78-2(1)

UNCLASSIFIED REPORT

DESCRIPTORS: *Avionics, *Life cycle costs, *Cost models, Digital systems, Computerized simulation, Reliability, Maintainability, Experimental design, Mathematical models, Air Force procurement, Acquisition, Failure(Electronics), Manpower, Military requirements, Spare parts, Repair, Input output processing, Specifications (U)
IDENTIFIERS: PE63243F, WUAFHRL20510001 (U)

The reliability and maintainability (R and M) model described in this report represents an important portion of a larger effort called the Digital Avionics Information System (DAIS) Life Cycle Cost (LCC) Study. The R and M model is the first of three models that comprise a modeling system for use in LCC analysis of avionics systems. The total system will provide the Air Force with an enhanced in-house capability to incorporate LCC considerations early in the system acquisition process. As part of the overall modeling system, the R and M model provides estimates of failure rates, maintenance manpower requirements, support equipment requirements, and spares requirements which are used to generate estimates of system support costs. When operated in a stand-alone mode, the R and M model can be utilized to analyze the impact of various avionics design configurations on system support requirements. This report describes the R and M model in detail. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A056 191 5/9 14/1

LITTON SYSTEMS INC FORT BENNING GA MELLONICS SYSTEMS DEVELOPMENT DIV

A Consideration of Army Training Device Proficiency Assessment Capabilities. (U)

DESCRIPTIVE NOTE: Technical rept.,
JUN 78 73P Shelnutt,Jack B. ;Smillie, Robert J. ;Bercos,James ;
CONTRACT: DAHC19-77-C-0011
PROJ: 2Q762722A765
MONITOR: ARI TR-78-A20

UNCLASSIFIED REPORT

DESCRIPTORS: *Training devices, *Cost effectiveness, *Army training, Military requirements, State of the art, Army equipment, Operational readiness, Army aviation, Performance(Human), Proficiency, Simulators (U)
IDENTIFIERS: Skill qualification tests, PE62722A, AS765 (U)

This report reviews the procedures and problems involved in the assessment of the use of training devices as a cost-effective alternative to the use of operational equipment for the evaluation of individual and collective proficiency in the U.S. Army. A review of the literature was conducted as well as an informal survey of personnel in other agencies who are involved in the use of training devices for proficiency assessment. This information was employed to: (a) review the use of training devices in proficiency assessment programs by agencies other than the Army; (b) to summarize aspects of proficiency test programs in the Army which are relevant to the present problem; and (c) to discuss issues which need to be considered in the assessment of the utility of using training devices for proficiency assessment. Recommendations were provided for future research planning. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A056 102 15/5

MITRE CORP BEDFORD MASS

AFSATCOM Life Cycle Cost Model. (U)

JUN 78 150P James,J. H. ;Stein,W. M.

REPT. NO. MTR-3057
CONTRACT: F19628-77-C-0001
PROJ: 6340
MONITOR: ESD TR-78-144

UNCLASSIFIED REPORT

Availability: Document partially illegible.
DESCRIPTORS: *Life cycle costs, *Cost models, *Communication satellites, *Logistics, Air Force, Mathematical models, Maintenance, Repair (U)
IDENTIFIERS: PE63302F (U)

A Life Cycle Cost (LCC) mathematical model has been developed for the Air Force Satellite Communications System (AFSATCOM). The model (under FORTRAN program name SITELCC) has been used in various tradeoff analyses involving acquisition costs, operation and support costs, and system performance. The AFSATCOM LCC Model provides for three echelons of maintenance, for communications terminal configurations of black boxes which may differ from base to base, and for reliability data which is a function of operating environment. In addition to LCC, the model calculates terminal availability as a result of initial sparing levels computed. This report presents the detailed structure of the model. A description of the output reports with illustration from a sample model run is included. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A056 087 5/9 5/3 16/4.2

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Unit Training Costs as a Part of Life Cycle Cost: A Methodology. (U)

DESCRIPTIVE NOTE: Master's thesis,
JUN 78 100P Thompson,Grover Frank ;
Allen,James Marion ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Army training, *Life cycle costs, *Antitank weapons, Army budgets, Economic analysis, Performance(Human), Training devices, Army personnel, Theses, Company level organizations, Battalion level organizations, Military reserves, Cost effectiveness, Surface to surface missiles (U)
IDENTIFIERS: TOW missiles (U)

This paper examines the unit training costs, defined herein as company and battalion level training, associated with the introduction of a new weapon system into the Army inventory. The Army Life Cycle Cost Model does not address unit training costs, and accordingly there is a significant cost during the acquisition process that is not recognized. Recommendations are included for a means to arrive at life cycle cost figures that include unit training and also enable unit commanders to anticipate training requirements generated by new weapon systems. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A055 665 5/1 15/5 14/1

ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA

Evaluation of Purchase Cost Factors. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 78 47P Williams,William B. ;Zabel,
Wayne V. ;
REPT. NO. APRO-705

UNCLASSIFIED REPORT

DESCRIPTORS: *Army procurement, *Cost analysis, Contract proposals, Cost estimates, Contract administration, Cost effectiveness, Contracts, Data bases, Regulations, Production, Inspection, Test and Evaluation, Military engineering, Military requirements, Standards (U)

The conclusions of this study are that the obstacles to the inclusion of technical assistance costs in bid evaluation are formidable. Deficiencies in technical data packages (TDP's) the absence of data bases reflecting technical assistance costs, and the inability to state and measure assistance costs with precision militate against the application of technical assistance costs as an 'other factor.' On the other hand, it does appear that potentially high costs of technical support could be used as an element in determining the responsibility of a prospective contractor. In addition, it would seem that development and use of a process control specification would reduce the need for technical assistance costs on certain contracts. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A055 574 17/2.1 9/2

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF

Software Acquisition Management Guidebook: Cost Estimation and Measurement. (U)

DESCRIPTIVE NOTE: Technical rept.,
MAR 78 142P Finfer,Marsha ;Mish,Russell
;
REPT. NO. SDC-TM-5772/007/02
CONTRACT: F19628-76-C-0236
MONITOR: ESD TR-78-140

UNCLASSIFIED REPORT

DESCRIPTORS: *Command and control systems, *Communication and radio systems, *Computer programs, Handbooks, Air Force operations, Specifications, Military requirements, Systems management, Air Force procurement, Life cycle costs, Quality assurance, On line systems, Configuration management, User needs, Real time, Closed loop systems, Display systems (U)

The Software Cost Estimation and Measurement guidebook is designed to assist Air Force personnel who are responsible for estimating and controlling the costs of embedded software within command, control, and communications systems. It provides a basic understanding of the current methodologies used in the formation of Air Force and contractor software cost estimates. Insight is provided into some of the problems (and reasons for the problems) associated with software cost estimates made by both Government and industry. The guidebook discusses the role of parametric models used in cost estimation and reviews three experimental predictive models. It also discusses the process of monitoring software costs and schedules while providing guidance to relevant military regulations, specifications, standards, and supporting literature. Much of the information and guidance provided is applicable to smaller less complex systems, but in all cases, it should be tailored to the needs of individual projects. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A055 147 17/2.1 15/3 15/7

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. (U)

APR 78 106P
REPT. NO. TTO-ORT-032-78C-V3

UNCLASSIFIED REPORT

Availability: Document partially illegible.
SUPPLEMENTARY NOTE: Supersedes report dated Jun 76. AD-A027 827.
DESCRIPTORS: *Tactical communications, *Cost effectiveness, *Life cycle costs, Management planning and control, Military requirements, Repair, Maintenance, Estimates, Parts, Maintenance personnel, Training (U)

This volume serves as TRI-TAC Office instructions and guidance to the services and agencies of their preparation, reporting, and tracking of life cycle costs estimates of TRI-TAC systems, subsystems, and equipments. A general methodology for estimating and analyzing TRI-TAC life cycle costs applicable to long range planning, equipment design analysis, and trade-off studies is presented. Formats for reporting and summarizing life cycle costs using the TRI-TAC structure and elements are provided. Appendices A, B, and C, included in the volume, define the detailed TRI-TAC cost element structure and identifies cost estimating relationships for operating and support cost elements. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A054 954 5/9 14/1

HUMAN RESOURCES RESEARCH ORGANIZATION ALEXANDRIA VA

Some Considerations in Analyzing Training Costs and Job Performance. (U)

DESCRIPTIVE NOTE: Professional paper, FEB 78 3P Vineberg,Robert ;Joyner,John ;Taylor,Elaine N. ;
REPT. NO. HUMRRO-PP-5-78

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Department of Defense Cost Analysis Symposium, Colorado Springs, CO, 27-29 Oct 77.
DESCRIPTORS: *Military training, *Cost effectiveness, Job analysis, Work functions, Performance(Human), Management planning and control, Symposia (U)

In summary, a task-level approach to cost-effectiveness analysis would use information from an analysis of training content, from occupational analysis, and from performance ratings. It would relate the costs of training and number of tasks in which training is provided to the number of tasks in which proficiency is attained at the completion of training. Thus, the effectiveness of a training program might be expressed by the number of tasks taught, times the quality of performance. Similarly, training costs could also be related to the actual frequency and quality of task performance in different types of jobs. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A054 834 1/3 5/3

RAND CORP SANTA MONICA CALIF

Estimated Costs of Extended Low-Rate Airframe Production. (U)

DESCRIPTIVE NOTE: Interim rept., MAR 78 69P Dreyfuss,David J. ;Large, Joseph P. ;
REPT. NO. RAND/R-2243-AF
CONTRACT: F49620-77-C-0023

UNCLASSIFIED REPORT

DESCRIPTORS: *Airframes, *Cost estimates, Production rate, Aeronautical engineering, Aircraft industry, Inflation(Economics), Manufacturing, Aircraft, Tools, Materials, Value engineering, Industrial production, Specifications, Life cycle costs (U)

Achieving a high rate of production as quickly as possible has traditionally been viewed as the most effective way of satisfying time-urgent inventory requirements while keeping production costs low. One common consequence has been the delivery of less than fully qualified production articles. This report discusses the cost of extending initial low-rate production while tests of early production articles continue. The relatively small resultant cost increases can potentially be offset by the delivery of more capable production items, lessened needs for postdelivery modification or retrofit, and lower total-life system costs. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A054 767 7/1 13/2

CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CALIF

Operating Cost Evaluation of Sulfur Dioxide Removal Systems for Boiler Applications. (U)

DESCRIPTIVE NOTE: Rept. for Jan-Sep 77,
APR 78 41P Slaminski,John M. ;
REPT. NO. CEL-TR-864
PROJ: F57571
TASK: ZF57571

UNCLASSIFIED REPORT

DESCRIPTORS: *Scrubbers, *Boilers, Commercial equipment, Removal, Sulfur oxides, Exhaust gases, Limestone, Activated carbon, Sulfuric acid, Cost analysis, Power measurement, Maintenance, Power levels, Air pollution control equipment, Naval shore facilities (U)
IDENTIFIERS: Sulfur dioxide, Sodium sulfite, Sodium bisulfite, PE62765N, WU01015 (U)

Seven commercial processes for extracting sulfur dioxide from steam or steam-electric generating plants are analytically compared. The operation and economics of lime and limestone slurry scrubbing, dilute and concentrated double alkali, and dilute sulfuric acid processes with gypsum disposal products are contrasted with sodium sulfite/bisulfite and activated char sulfur recovery systems. Each process is critically analyzed to yield system flows and operating expenses (including equipment power consumption, product disposal costs or credits, reagent requirements and operating and maintenance costs). The laws for scaling these results to any given plant capacity and coal sulfur content are developed and parametrically graphed. This information is a valuable guide for the Navy or utility engineer to perform accurate system evaluations. (Author) (U)

AD-A054 767 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A054 503 13/10 5/3

ARINC RESEARCH CORP ANNAPOLIS MD

The Cost-Effectiveness of Standardization for Hull, Mechanical, and Electrical Equipment. (U)

APR 78 59P
REPT. NO. 1821-11-1-1733
CONTRACT: N00140-77-D-0417

UNCLASSIFIED REPORT

DESCRIPTORS: *Ship hulls, *Ship auxiliary equipment, Standards, Cost effectiveness, Life cycle costs, Naval procurement, Military requirements, Contract administration, Shipbuilding, Investments, Research management, Work measurement, Naval operations (U)

Standardization of hull, mechanical, and electrical (HM and E) equipments in the Navy shipbuilding program is assumed to be cost-effective; however, life-cycle-cost estimates to substantiate this assumption are not available. This report presents the results of a study to determine the value to the Navy, over the total life cycle of a ship, of standardizing HM and E equipments. This report presents an overview of the Navy ship standardization program, the development of a standardization life-cycle-cost model, standardization-related work tasks, and a life-cycle-cost comparison of the use of standard and nonstandard HM and E components and equipments in different complexity categories. The results provide examples of reduced life-cycle costs achieved when a standard component or equipment is utilized. (Author) (U)

AD-A054 503 UNCLASSIFIED Z0M07

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A053 963 5/1 15/5 14/1

MITRE CORP BEDFORD MASS

The Pentagon 'Four-Step'. (U)

MAR 78 28P Waks,Norman :
REPT. NO. MTP-190

UNCLASSIFIED REPORT

DESCRIPTORS: *Contract administration, *Military procurement, *Cost overruns, Contract proposals, Contracts, Department of Defense, Trade off analyses, Design to cost, Cost estimates, Life cycle costs, Weapon systems, Acquisition, Selection (U)

In the Secretary of De ense's Annual Report for FY'79 to the Congress, released on 2 February 1978, he indicated that the Department of Defense (DOD) was currently testing a new concept for contractor source selection on major programs called the 'four-step' process. He further indicated that a decision would be made in February on whether DOD would adopt this process. DOD's encouragement of the publication by the Wall Street Journal of a favorable article on the subject on 6 March would seem to indicate that this decision has been made and that DOD intends to go ahead and adopt the concept as a matter of policy. This paper questions both the desirability and the necessity for DOD to do so, since the objectives of 'four-step' can be accomplished in other ways. And these ways do not risk reducing program results, as 'four-step' does. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A053 953 15/5

WRIGHT STATE UNIV DAYTON OH DEPT OF ADMINISTRATIVE SCIENCE AND FINANCE

On the Benef t-to-Cost Ratio of Base-Level Stocking Decisions for Low Demand Items. (U)

DESCRIPTIVE NOTE: Interim rept.,
APR 78 23P Lemmy,W. Steven ;Genet, Russell M. ;Weitzler,Thomas S. ;Miles,Ross E. ;
REPT. NO. WP-76-3011-15
CONTRACT: AFOSR-76-3011
PROJ: 2304
TASK: A5
MONITOR: AFOSR TR-79-0810

UNCLASSIFIED REPORT

DESCRIPTORS: *Inventory analysis, *Cost effectiveness, *Stockpiles, Decision making, Aircraft, Aircraft equipment, Mathematical analysis, Computer applications (U)
IDENTIFIERS: PE61102F, WUAFOSR2304A5 (U)

This paper explores a fundamental cause of aircraft non-availability. It shows that for current Air Force aircraft, a significant portion of the lack of supply availability is due to not stocking items at the base level. Basic research on methods to alleviate this problem in a cost-effective way is reported. It is shown, with specific, real world examples, how these methods can be applied to current inventory aircraft. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A053 937 9/2

ELECTRONIC SYSTEMS DIV HANSCOM AFB MASS

A Computerized Model for Estimating Software Life Cycle Costs (Model Concept). Volume 1. (U)

APR 78 28P Bourdon,Gerard A. ;Duquette, Joseph A. ;

REPT. NO. ESD-TR-77-253-VOL-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programs, *Life cycle costs, Mathematical models, Cost estimates, Management planning and control, Cost models (U)
IDENTIFIERS: *Computer software (U)

This report is the first volume of a series of reports on the development of a computerized model for estimating software life cycle costs. This volume deals with the basic concepts of the model. The report defines the basic stages of the model, the methodologies employed, and the desired features of the model. The report contains enough information to allow operation of the model by manual methods. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A053 872 13/10 14/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The AGOR-21 Class Oceanographic Research Ships: An Acquisition Analysis. (U)

DESCRIPTIVE NOTE: Master's thesis.
MAR 79 115P Van Haaren,Cary G. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Research ships, *Military procurement, *Cost effectiveness, Strategy, Commercial equipment, Policies, Naval architecture, Reliability, Maintainability, Theses (U)
IDENTIFIERS: AGOR 21 class vessels (U)

The use of commercial off the shelf products, commercial standards and business practices to meet Defense material needs is receiving increasing attention. Defense acquisition policy-makers believe that using commercial products and standards is one way to reduce acquisition costs while still meeting mission needs. This thesis is a history and analysis of a successful ship acquisition program which utilized commercial standards and practices. Two current ship acquisition programs using the same concept are briefly described. The intent is to illustrate the development of the acquisition concept and the project manager's strategy as well as describe the planning and execution of the program. Significant management problems were encountered due to use of commercial standards and practices. Emphasis is given to their solution. Contractor and ship operator evaluations of the program are provided. Several recommendations are made concerning use of commercial standards and practices for future acquisition programs. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A053 229 5/. 14/1 13/13 9/2

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Supervision and Administration Cost/Rate Forecasting System. Volume I. User's Manua.. (U)

DESCRIPTIVE NOTE: Special rept.,
MAR 78 19P O'Connor,Michael J. ;
Lidral,Robert :
REPT. NO. CERL-SR-P-87

UNCLASSIFIED REPORT

DESCRIPTORS: *Management planning and control. *Cost models. Military engineering. Instruction manuals. Computer programs. Management information systems. Statistical data. Regression analysis. Data bases. Statistical analysis. Supervision. Supervisors. Administrative personnel. Mathematical prediction. Construction (U)

This volume describes the use of the Supervision and Administration (S and A) Cost/Rate Forecasting System to maintain S and A data, to update the S and A forecasting model, and to forecast future S and A costs and rates. Volume II, the Programmer's Guide, contains software documentation. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A053 228 13/3 5/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Trends in the Real Prices of Selected Construction Products and Materials, 1946-1976. (U)

DESCRIPTIVE NOTE: Special rept.,
MAR 78 56P Ramsson,R. ;
REPT. NO. CERL-SP-D-84
PROJ: 4A762731AT41
TASK: T7

UNCLASSIFIED REPORT

DESCRIPTORS: *Construction materials. *Cost analysis. Lumber. Structural steel. Plywood. Concrete. Fittings. Brass. Clay. Paperboard. Heating plants. Asphalt. Gypsum. Inflation(Economics). Price index (U)
IDENTIFIERS: Plumbing fixtures. PE62731A. WU005. AST41 (U)

This study measured trends in the relative prices of 13 construction goods and materials from 1946 through 1976. The prices of three of these products--Douglas Fir lumber, structural steel products, and steel reinforcing bars--have increased substantially since World War II. The prices of plywood, building paper and board, heating equipment, asphalt, and gypsum products have declined during the post-War period. The prices of the remaining products--Southern Pine lumber, concrete products, millwork, plumbing fixtures and brass fittings, and structural clay products--have shown little or no change. The pattern of the real prices of these products in 1976 suggests that savings in construction materials can be obtained by substituting for those products whose prices have increased. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A053 180 1/3 14/1 15/5 9/2

ADMINISTRATIVE SCIENCES CORP ALEXANDRIA VA

Naval Aircraft Operating and Support Cost Model - FY76 Revision. (U)

MAR 78 84P
REPT. NO. ASC-R-116
CONTRACT: N00014-77-C-0180

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval aircraft, *Life cycle costs, *Cost models, Logistics support, Parametric analysis, Computer programs, Cost estimates, Cost analysis, Throughput, Programming manuals, Aircraft maintenance, Replenishment, Repair (U)

This report documents the revisions of a parametric model for estimating Naval aircraft operating and support costs developed by Administrative Sciences Corporation. The model provides an estimate of average annual and life cycle O and S costs based on aircraft physical characteristics and basic program parameters using parametric cost-estimating relationships, cost factors and throughputs, and has been used to support numerous cost analyses prepared for CAIG review as well as other special studies such as the Naval Escort Force Mix Study and the Sea Based Air Study. It is updated often in order to remain responsive to each particular analysis, to reflect the changing nature of Naval aviation, and simply to remain timely. This report reflects the status of the model after incorporation of all FY1976 data. The bulk of the report is concernad with providing a clear, concise and complete definition of each cost element and the way it is estimated by the model. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A052 822 5/3 12/1 5/1

WHARTON SCHOOL OF FINANCE AND COMMERCE PHILADELPHIA PA DEPT OF DECISION SCIENCES

A Dynamic Theory of Contractual Incentives. (U)

DESCRIPTIVE NOTE: Technical rept.,
FEB 78 24P Blanning,Robert W. ;
Kleindorfer,Paul R. ;
REPT. NO. 78-01-03
CONTRACT: N0001 -77-C-0171

UNCLASSIFIED REPORT

DESCRIPTORS: *Design to cost, *Incentive contracts, Cost models, Mathematical models, Probability, Contract administration, Decision making, Weapon systems, Military procurement, Management planning and control (U)

The purpose of this paper is to construct a simple model of the information, incentive, and decision aspects of financial incentive system and to offer insights into the problem of a high-level government unit that wishes to encourage lower-level units and private contractors to behave in consonance with its financial and non-financial objectives. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A052 661 5/3 9/3 15/5 5/9
9/2

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Economic Analysis of Life Cycle Military Manpower Maintenance and Training Requirements in Avionics Minicomputer and Microcomputer Systems. (U)

DESCRIPTIVE NOTE: Master's thesis,
MAR 78 68P Genovese,Dennis Harry ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Avionics, Maintenance, Military training, Microcomputers, Minicomputers, Naval training (U)
IDENTIFIERS: Federated computer system, Consolidated computer system (U)

The dramatic advances within the electronics industry over the last few decades have brought about several equally effective computer design alternatives for use in military avionics systems. This report is an attempt to examine the maintenance personnel and training Life Cycle Costs associated with three of these alternatives; (1) Consolidated Mission Computer, (2) Federated Homogeneous Computer System, and (3) Federated Heterogeneous Computer System. The computations indicate that the Federated Homogeneous System is the most cost effective alternative. This report is intended as an input to the research being conducted by LCDR James Buttinger and Associate Professor Uno Kodres for the Naval Weapons Center, China Lake, titled A Study of Alternatives for VSTOL Computer Systems. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A052 400 14/1

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA

Cost Effective Analysis. (U)

DESCRIPTIVE NOTE: Report bibliography Jul 73-Apr 77.
APR 78 441P
REPT. NO. DDC/BIB-78/01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes Rept. no. DDC-TAS-75-8, AD-A010 400. See also report dated Mar 72, AD-738 800 and report dated Nov 73, AD-771 705.
DESCRIPTORS: *Cost effectiveness, *Costs, *Bibliographies, Cost estimates, Cost analysis, Economics, Management planning and control, Decision making, Logistics planning, Government procurement, Trade off analyses (U)

This bibliography contains unclassified-unlimited citations on Cost Effectiveness Analysis. These citations emphasize program evaluations, management techniques, research and development decision making, management problems, tradeoffs, related cost analysis and methodology, and systems value engineering. The four computer-generated indexes provided are Corporate Author-Monitoring Agency, Subject, Title and Personal Author. (Author) (U)

AD-A051 737 20/1 14/1 13/13 13/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Construction-Site Noise Control Cost-Benefit Estimating Procedures. (U)

DESCRIPTIVE NOTE: Interim rept.,
JAN 78 35P Kessler,F. M. ;Schomer,P. D. ;Chanaud,R. C. ;Rosendahl,R. ;
REPT. NO. CERL-IR-N-36
PROJ: 4A762720A896
TASK: 03

UNCLASSIFIED REPORT

DESCRIPTORS: *Noise reduction, *Cost estimates, *Construction equipment, Sound pressure, Barriers, Specifications, Sites, Backfills, Trenching, Earth handling equipment, Substitutes, Foundations(Structures), Modification, Concrete, Plywood (U)
IDENTIFIERS: PE62720A, AS896 (U)

This report aids the U.S. Army Corps of Engineers construction cost estimator in determining the level of noise generated at construction sites, in comparing this level with Corps of Engineers criteria, and in estimating costs to a contractor of reducing the noise. A companion report, Construction-Site Noise Control-Cost-Benefit Estimation Technical Background, Technical Report N-37 (U.S. Army Construction Engineering Research Laboratory (CERL), January 1978), contains the rationale and data supporting this report. (Author) (U)

AD-A050 830 5/9 5/10 5/3

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CALIF

A Performance-Contingent Reward System That Uses Economic Incentives: Preliminary Cost-Effectiveness Analysis. (U)

DESCRIPTIVE NOTE: Interim rept. Jul 76-Apr 77.
FEB 78 59P Bretton,Gene E. ;Dockstader, Steven L. ;Nebeker,Delbert M. ;Shumate,E. Chandler ;
REPT. NO. NPRDC-TR-78-13
PROJ: F55521
TASK: ZF55521018

UNCLASSIFIED REPORT

DESCRIPTORS: *Government employees, *Motivation, Salaries, Awards, Performance(Human), Optimization, Productivity, Forecasting, Cost effectiveness, Efficiency, Quality, Operators(Personnel), Office personnel, Keyboards, Data transmission systems, Management information systems (U)
IDENTIFIERS: Bonuses, PRCS(Performance Contingent Reward System), Performance Contingent Reward System, Incentive wages, PE62763N, WU2F555210180302 (U)

The cost-effectiveness, cost-savings projections, and related issues of a Performance-Contingent Reward System (PCRS) that uses economic incentives were evaluated. The PCRS was tested on federal civil service data transcribers in the Management Information System Department of the Long Beach Naval Shipyard (LBNSY). Evaluation of the PCRS was conducted primarily from the following perspectives: (1) The cost-effectiveness of the proposed PCRS relative to former production conditions at the test site; (2) Issues involving the generalizability of the test-site results to other Navy activities with substantial concentrations of data transcribers; and (3) Projections of PCRS-induced cost savings in terms of specified outyears, levels of aggregation of data transcribers, and levels of generalizability of test-site results. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A050 813 13/3 20/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Construction-Site Noise Control Cost-Benefit Estimation Technical Background. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 78 105P Kessler,Fred M. ;Schomer, Paul D. ;Chanaud ,Robert C. ;Rosendahl,Eugene ;
REPT. NO. CERL-TR-N-37

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *Construction equipment, *Noise reduction, Sites, Machinery noise, Noise pollution, Control systems, Cost effectiveness, Cost estimates, Technology transfer, Mathematical models, Computerized simulation, Data acquisition, Scheduling (U)

Presented are methods of estimating noise level at a construction site, methods of noise reduction and control at a construction site, and the associated costs for this reduction with the emphasis on equipment noise control. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A050 588 16/4.2 5/1 15/5

ARINC RESEARCH CORP ANNAPOLIS MD

LCC/DTC Tasks Conducted for MX Weapon System Program. (U)

DESCRIPTIVE NOTE: Summary rept. Oct 76-Jan 78.
JAN 78 16P Buchanan,H. N. ;Nelson,R. R. ;Schaefer,J. N. ;Sweet,D. E. ;
REPT. NO. 1953-03-2-1692
CONTRACT: F04606-76-A-0087

UNCLASSIFIED REPORT

DESCRIPTORS: *Surface to surface missiles, *Strategic weapons, *Life cycle costs, *Design to cost, Cost models, Computer programs, Logistics support, Guided missile silos, Trenching, Underground structures, Hardened structures, Logistics management, Logistics planning, Algorithms, Data bases (U)
IDENTIFIERS: MX missiles (U)

Tasks conducted by ARINC Research Corporation related to life cycle cost/design-to-cost support of the MX Weapon System are described. (U)

UNCLASSIFIED

DDC RE ORT BIBLIOGRAPHY SEARCH CONTPOL NO. Z0M07

AD-A050 224 9/2

WASHINGTON UNIV SEATTLE DEPT OF CHEMISTRY

A Low-Cost, General Purpose Data Acquisition and Control System for the PDP-11 Minicomputer. (U)

DESCRIPTIVE NOTE: Technical rept., FEB 78 23P Danielson,J. D. S. ;Brown, Steven D. ;Appellof,Carl J. ;Kowalski,B. R.
REPT. NO. TR-11
CONTRACT: N00014-75-C-0536

UNCLASSIFIED REPORT

DESCRIPTORS: *Minicomputers, *Data acquisition, *Control systems, Man computer interface, Computer programs, Fortran, Input output processing, Low costs, Registers(Circuits), Multiplexing, Analog to digital converters (U)
IDENTIFIERS: PDP-11 computers, Computer program transferability, WUNR051565 (U)

A general-purpose interface for the PDP-11 family of minicomputers is described. The interface, oriented towards laboratory data-acquisition and experimental control applications, can be built in a relatively short time with low materials costs. A general purpose, FORTRAN-compatible software package capable of driving the interface is also discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A049 976 5/2 14/1

ARMY AVIATION RESEARCH AND DEVELOPMENT COMMAND ST LOUIS MO

A Computerized Log for Systems and Cost Analysis Division Cost Estimate Control Data Center (CECDC) Validation Activity. (U)

DESCRIPTIVE NOTE: Final rept., JAN 78 24P Ragan,Joanne A. :
REPT. NO. USAAVRADCOM-TR-78-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Information processing, *Cost analysis, *Control, Computer applications, Cost estimates, Validation, Weapon systems, Military procurement, Systems approach, Computer programming, Flow charting (U)

Responsibility for validating and/or reviewing documents containing cost estimates has been assigned to the CECDC function of DRDAV-BC. In order to utilize the speed and accuracy available with automatic data processing, a computer program has been developed to process the appropriate information from these documents, to aid in preparation of the necessary reports and to provide a historical log of the documents which have been processed. The logging procedure includes portions accomplished manually as well as the portion produced by the computer. After a document has been validated (or rejected) by a CECDC analyst, specific information is logged before the document is returned to the proponent. Periodically, these records are key punched onto IBM punch cards, which are then processed by the IBM 360/65 computer using the specially designed Computerized Log Program. Within the computer, data records are sorted by aircraft system, and are then printed out in group arrangement according to type of validation, aircraft type, and month. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A049 940 17/2 17/2.1 22/2

MATHEMATICA INC PRINCETON N J MATHTECH DIV

A Cost Effectiveness Analysis of the Naval Modular Automated Communications System (NAVMACS). (U)

DESCRIPTIVE NOTE: Final rept. 1 May-30 Sep 77,
JAN 78 252P Agnew,Carson E. ;Lanen, William N. ;
CONTRACT: N00014-77-C-0049
MONITOR: ONR 7162-FR1

UNCLASSIFIED REPORT

DESCRIPTORS: •Communication terminals, Radio broadcasting, Modular construction, Message processing, Automation, Shipboard Communications networks, High frequency, Teletype systems, Ultrahigh frequency, Printers(Data processing), Communication satellites, Cost effectiveness (U)
IDENTIFIERS: Emergency communications, Satellite communications, WUNRQ23004 (U)

This report presents an analysis of the Navy's Afloat Message Communications System, as it will be affected by the Naval Modular Automated Communications System (NAVMACS) Program. Our objective in this analysis has been to assess the impact that alternative decisions concerning the NAVMACS program and its implementation will have on communications costs and effectiveness. (Author) (U)

AD-A049 940 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A049 847 1/3 15/5 5/3 9/2

ARMY TROOP SUPPORT AND AVIATION MATERIEL READINESS COMMAND ST LOUIS MO

Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft). (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 78 68P Gille,Warren H. , Jr:
REPT. NO. TSARCOM-TR-77-4

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: •Army aircraft, •Army procurement, •Inflation(Economics), •Computer programs, •Cost analysis, Cost estimates, Indexes, Airframes, Aircraft engines, Avionics, Models, Methodology, Computerized simulation, Time series analysis, Computations, History, Economics (U)
IDENTIFIERS: Historical Inflation Computer Program (U)

This report extends and revises Technical Report 76-18 which presents and describes the Historical Inflation Program, a computerized program generating historical inflation indices for the procurement of Army aircraft. The program can be updated monthly, is easily revised for changes in Bureau of Labor Statistics methods, and capable of handling data for all fiscal year formats. Output is expressed as monthly, quarterly, calendar year inflation indices (in Calendar Year 1967 base) and inflation factors (in any Fiscal Year base). This report contains updated tables of inflation factors, expressed in a FY 77 base. These indices and factors provide a means of adjusting historical cost data for the procurement of Army aircraft to constant year dollars. Additional features include: computations for the Derivation of Revised Weighting Factors, detailed indices enabling the adjustment of historical Labor and Material cost separately, a discussion of aggregate weighting factors for Labor and Materials, including trends from sensitivity analysis, and a more complete explanation, and additional documentation, aimed at making the report more useful to a larger cross section of the DOD (U)

AD-A049 847 UNCLASSIFIED Z0M07

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A048 782 9/2 5/1 5/2

GEORGIA INST OF TECH ATLANTA COLL OF INDUSTRIAL MANAGEMENT

The Pricing of Computer Services: A Bibliography. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 78 68P Hamilton,Kenneth L. ;
REPT. NO. GIT-MS-78-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer applications, *Data processing, *Costs, *Bibliographies, Economics, Computers, Accounting, Indexes, Management planning and control, Facilities, Management information systems, Allocations, Budgets (U)

This bibliography consists of references to the literature on pricing of computer services. A table of contents provides indexing of the bibliography on the bases of authors, editors, titles, etc., with cross references to the original entry. The bibliography will be revised at a later date to include classification according to content along with additional critical annotations and abstracts. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A047 761 5/9 5/3

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

USAF Military Personnel Costing: Problems and Approaches. (U)

DESCRIPTIVE NOTE: Final rept. Jun 73-Dec 76.
AUG 77 54P Baran,H. Anthony ;
REPT. NO. AFHRL-TR-77-39
PROJ: 1124
TASK: 03

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force personnel, *Cost analysis, Cost estimates, Accounting, Human resources, Guides, Allocations, Life cycle costs, User needs, Missions, Standardization, Job training, Fringe benefits, Retirement(Personnel), Medical services, Billets(Personnel) (U)
IDENTIFIERS: PE62703F, WUAFHRL11240306 (U)

This report attempts to identify the most pressing Air Force military personnel costing problems and to specify the prerequisite needs of Air Force cost analysts in order to solve them. A survey was made to identify costing approaches and techniques to satisfy the needs. These were then examined to assess their utility in developing standardized costing techniques and standard cost parameters for Air Force military personnel. The examination revealed ways in which planned application restricts the choice of methods, and the existence of widespread disagreements concerning basic definitions and objectives. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A047 674 9/2 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO

A Quantitative Analysis of Estimating Accuracy in Software Development. (U)

DESCRIPTIVE NOTE: Doctoral thesis,
AUG 76 191P Gehring,Philip Francis , Jr;
REPT. NO. AFIT-CI-77-28

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer program verification, *Cost estimates, *Experimental design, Assessment, Accuracy, Estimates, Models, Management engineering, Cost analysis, Automation, Data processing, Requirements, Literature surveys, Theses, Standardization (U)
IDENTIFIERS: *Project management (U)

This research quantitatively examines the estimating accuracy or over 5000 standardized resource consuming activities from 39 software development projects of various size. The activity data pertaining to planned hour estimates and actual expenditures were collected by an automated project management system (PARMIS) as the data were generated. The dissertation hypothesizes that specific activities can be isolated which consistently have a greater influence on whether a software development project will be successful in terms of cost and schedule estimates. The arithmetic and percent differences between estimated and observed hour expenditures are the elementary variables used to investigate estimating accuracy. Various summarizing and statistical techniques are employed to reveal the information inherent in the data, and to identify, if possible, a correlation between the selected activities and the final difference between the total hours estimates and expended for the project. The findings from the data source used clearly support the hypothesis. However, no correlation was found between the activities which have the most influence on estimating accuracy in a software development project and other criteria such as the total project difference. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A047 667 21/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Development of Cost Estimating Relationships for Aircraft Jet Core-Engine Overhaul Costs. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 77 160P Breglio,Robert A. , Jr.;
Wright,Richard F. ;
REPT. NO. AFIT-LSSR-31-77B

UNCLASSIFIED REPORT

DESCRIPTORS: *Jet engines, *Cost estimates, *Life cycle costs, *Aircraft maintenance, Regression analysis, Mathematical models, Operation, Parameters, Costs, Maintenance, Turbojet engines, Turbofan engines, Aircraft engines, Theses (U)
IDENTIFIERS: Core engines (U)

Cost estimation is a wide open area within the Department of Defense and accurate cost estimating models are a valuable tool in the life cycle costing of a weapon system. This research effort utilized multiple linear regression analysis to develop parametric cost models or cost estimating relationships (CERs) for jet engine depot overhaul costs. Both engine operating parameters, e.g., turbine inlet temperature, RPM, etc., and engine physical characteristics, e.g., length, weight etc., were considered as probable cost drivers. Extensive analysis was performed to determine the reliability of the data base. The major finding of this study was that models can be developed with acceptable explanatory power, with respect to variation in the data base, using data of questionable reliability. Thus, a model developed should not be accepted on the basis of explanatory power alone but should be tested further to determine its utility as a cost estimator. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A047 662 15/5 5/9 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Cost Analysis of Graduate Education in Logistics Management. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 77 136P Haynes,Ralph R. ;Williamson, Dennis A. ;
REPT. NO. AFIT-LSSR-16-77B

UNCLASSIFIED REPORT

DESCRIPTORS: *Logistics management, *Courses(Education), *Cost analysis, Graduates, Military training, Air Force personnel, Costs, Education, Universities, Surveys, Requirements, Research management, Comparison, Theses (U)

The purpose of this thesis was to compare the full cost to the Air Force for providing an officer with a Master of Science degree in Logistics Management from AFIT with the full cost of a similar degree from a civilian institution. Graduate logistics programs of twelve universities were evaluated to determine if their graduate degree requirements were similar to AFIT resident program requirements; the requirements of four universities were found to be similar. Elements of cost necessary to make a comparative cost analysis were identified and defined. The elements were subdivided into three categories to facilitate cost comparison and to more readily identify the areas of greatest cost. The three categories were direct and indirect costs of education and pay and allowances. The average monetary value of each element of cost was determined. Then an analysis of the total cost of each program was performed. The authors concluded that pay and allowances are the most sensitive element of cost and that the AFIT resident program was the least expensive. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A047 640 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Aircraft Maintenance Cost Elements. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 77 228P McCarty,Deryl S. ;Moore, Ronald L. ;
REPT. NO. AFIT-LSSR-17-77B

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft maintenance, *Cost analysis, *Maintenance management, Management planning and control, Costs, Cost effectiveness, Military requirements, Cost models, Scheduling, Maintenance personnel, Accounting, Accountability, Theses (U)
IDENTIFIERS: Cost accounting (U)

The Department of Defense Management by Objective 9-2 required that all services develop a non-duplicative, inexpensive aircraft maintenance cost accounting system that would provide a data base for determining downstream aircraft life cycle costs. To date, no USAF accounting system has fulfilled these requirements. To develop a comprehensive accounting system that does meet MBO criteria requires that a new accounting system be developed based on an extensive three-phase research program. The three phases include: (1) to identify the maintenance cost elements in use, (2) to identify which of these elements are needed by Air Force managers, and (3) to determine which of these needed elements provide the most information at the least cost. This study starts this three-phase research by determining what maintenance costs elements are currently costed by civilian and military maintenance organizations. This was accomplished through a review of civilian and military aircraft maintenance cost accounting publications using the technique of semantic content analysis. The results of this analysis provided a 'core list' of 'in-use' aircraft maintenance cost elements and recording techniques. From this core list, the next research phase--identification of AF cost element needs--can be inaugurated. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 634 15/5 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Analytical View of Advance Incentivized Overhead Agreements in the Defense Industry. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 77 179P Lynch,Patrick J. ;Pace, John M. ;
REPT. NO. AFIT-LSSR-14-77B

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force procurement, *Indirect costs, *Contract administration, Agreements, Cost analysis, Cost overruns, Profits, Management planning and control, Incentive contracts, Department of Defense, Monitoring, Contracts, Vendors, Theses (U)
IDENTIFIERS: *Overhead costs (U)

Overhead costs constitute a substantial portion of the DOD dollars spent in the procurement of defense systems. Therefore, overhead control has become an area of special concern to government contract managers. Previous attempts to negotiate an advance agreement on total overhead costs have been unsuccessful due to a number of factors. This study examined those factors and another step in the evolution of advance agreement theory. This step involves the application of a sharing arrangement to underruns or overruns of the advance agreement target expenditure levels. In this study the authors outline the strengths and weaknesses of the current government overhead monitoring process, provide a basic structure for an advance incentivized overhead agreement and present the advantages and shortcomings of using such an agreement. The authors conclude that utilization of an advance incentivized overhead agreement will improve the current overhead monitoring process by establishing goal congruency between contractor profit and government cost goals and by facilitating the communication of government cost objectives to defense contractors. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 391 5/9 14/1 5/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

The RDT and E Program of the DoD on Training, FY 1977. (U)

DESCRIPTIVE NOTE: Final rept. Apr 76-Jul 77.
JUL 77 85P Orlansky,Jesse ;
REPT. NO. P-1270
CONTRACT: DAHC15-73-C-0200
MONITOR: IDA/HQ,SBIE 77-19304,AD-E500 007

UNCLASSIFIED REPORT

DESCRIPTORS: *Military training, *Research management, *Cost effectiveness, Teaching methods, Assessment, Cost analysis, Resource management, Computer aided instruction, Flight simulation, Military exercises, War games, Training devices, Flight simulators, Performance(Human), Test and evaluation, Allocations (U)
IDENTIFIERS: *Training management, Research and development (U)

This paper identifies the RDT and E program of the DoD on military training for FY 1977. An analysis of work units shows that the areas of training which receive major attention are the development and evaluation of flight simulators (all services, with the Air Force expending most funds), engagement simulation of battlefield activities (Army) and computer-assisted instruction (Navy, Air Force, and DARPA). Lesser efforts are expended on performance measurement in training and on cost-effectiveness studies of training. This analysis is part of an overall study to evaluate methods and data useful for determining the cost and effectiveness of alternative ways of training military personnel. Particular attention is directed in the study to the use of flight simulators, training devices, computer-assisted instruction and methods of training. R and D activities are identified in this paper to define the nature and scope of current research efforts directed to major areas of training. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A047 378 5/1 5/3

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA COST ANALYSIS GROUP

Contractor Initiatives for Reliability, Maintainability, and Cost Improvement. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 77 41P Weimer,C. David ;
REPT. NO. P-1291
MONITOR: IDA/HQ,SBIE 77-19708,AD-E500 010

UNCLASSIFIED REPORT

DESCRIPTORS: *Management engineering, *Costs, Production, Life cycles, Reliability, Maintainability, Electronic equipment, Data acquisition, Contract administration, Design to cost, Life cycle costs, Reliability(Electronics), Military procurement, Policies, Regulations, Guarantees, Industrial production, Performance (U)
IDENTIFIERS: Contractors (U)

This paper presents a synthesis of major findings and conclusions derived from four years of research in electronics subsystem acquisition. Department of Defense policy statements for achieving improved reliability, maintainability, and cost are reviewed. The application and implementation of these policies are examined and the management response of system and subsystem contractors is described in areas of operating policies and procedures, project organization, cost management and control, and development program planning. The contractor experiences during their engineering development programs are subsequently evaluated in terms of operating problems or policy barriers. In total, the experiences of 42 contractors responding in 25 separate programs are examined and analyzed. Based upon their past experiences and management behavior, the appropriate response to successfully embrace future policy initiatives is postulated. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A047 356 9/2 10/3 4/2 14/1

JET PROPULSION LAB PASADENA CALIF

Computer Program for Design and Performance Analysis of Navigation-Aid Power Systems Program Documentation. Volume II - User's Manual. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 77 103P Goltz,G. ;Weiner,H. ;
REPT. NO. JPL-5040-27-VOL-2-change-1
MONITOR: USCG,CGR/DC D-11-77-VOL-2.;8/76-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also volume 3. AD-A047 542.
DESCRIPTORS: *Computer program documentation, *Solar cells, *Mathematical analysis, *Cost effectiveness, *Power supplies, Programming manuals, Input output processing, Solar radiation, Geographical distribution, Variations, Meteorological data, Cloud cover, Feasibility studies, Electric Batteries, Navigational aids (U)

A computer program has been developed for designing and analyzing the performance of solar array/battery power systems for the U. S. Coast Guard Navigational Aids. This program is called the Design Synthesis/Performance Analysis (DSPA) Computer Program. The basic function of the Design Synthesis portion of the DSPA program is to evaluate functional and economic criteria to provide specifications for viable solar array/battery power systems. The basic function of the Performance Analysis portion of the DSPA program is to simulate the operation of solar array/battery power systems under specific loads and environmental conditions. This document provides all the information necessary to access the DSPA programs, to input required data and to generate appropriate Design Synthesis or Performance Analysis Output. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 282 14/1 1/3 14/4

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Methodology for Estimating the Economic Benefits of an Aircraft Engine Warranty. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 77 135P Dooley,Martin P. ;Kells, Richard E. ;
REPT. NO. AFIT-LSSR-10-77B

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft engines, *Guarantees, *Cost benefits, Life cycle costs, Savings, Cost estimates, Reliability, Components, Mathematical models, Computer programs, Theses (U)
IDENTIFIERS: Warranties (U)

Aircraft engine warranties are used extensively in the commercial airlines industry. If the Department of Defense hopes to use warranties as a method of reducing engine life cycle costs, the costs and benefits of each warranty must be carefully analyzed. The methodology developed in this study provides framework to assist analysts in estimating the economic benefits of an engine warranty. A test application of the methodology details the benefits of a hypothetical DOD engine warranty, and includes a sensitivity analysis of the key variables. The study concludes that the basic method can be used to estimate the economic benefits of a wide range of engine and equipment warranties. (Author) (U)

AD-A047 282

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 198 5/9 14/1

GENERAL RESEARCH CORP MCLEAN VA OPERATIONS ANALYSIS DIV

Development of Methods for Analysis of the Cost of Enlisted Attrition. (U)

DESCRIPTIVE NOTE: Final rept. Jun 76-May 77.
SEP 77 294P Huck,Daniel F. ;Midlam, Kenneth D. ;Purcell,Agnes ;Sica,Geraldine ; Bocast,Alex ;
REPT. NO. GRD-CR-197
CONTRACT: N00014-76-C-0939

UNCLASSIFIED REPORT

DESCRIPTORS: *Enlisted personnel, *Attrition, *Costs, Cost effectiveness, Mathematical models, Performance(Human), Manpower utilization, Motivation, Education, Graduates, Cost benefits, Learning curves, Aptitudes, Naval personnel, Vocational guidance, Volunteers, Recruits, All volunteer (U)
IDENTIFIERS: Navy all volunteer force (U)

The objectives of this study were to (1) develop cost-effectiveness measures for first-term enlisted personnel integrating attrition, cost and value parameters; (2) compile as complete a data base on these parameters as could be accomplished with the Services' cooperation (but without creating significant new data systems), concentrating on those qualitative or identifying factors that can be known about an individual at the time of enlistment; (3) develop a user-oriented system of computer programs which will relate the data to the models in an easy-to-use, efficient, and flexible way. Data bases for attrition data for both the Navy and Marine Corps have been compiled. The cost data included here are felt to encompass all significant costs associated with first-term enlistees. The utility functions developed in this study are much more comprehensive than was originally planned because of a realization of the great impact the utility function assumptions have on the cost-effectiveness measures. (U)

AD-A047 198

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 181 1/3 14/1

RAND CORP SANTA MONICA CALIF

A Critique of Aircraft Airframe Cost Models. (U)

DESCRIPTIVE NOTE: Interim rept.,
SEP 77 61P Large,J. P. ;Gillespie,K. M. S. ;
REPT. NO. RAND/R-2194-AF
CONTRACT: F49620-77-C-0023

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Companion report to rept. no. RAND/R-2196-AF.
DESCRIPTORS: *Airframes, *Cost models, Cost analysis, Aircraft, Criteria, Parametric analysis, Military planning, Quality control, Experimental design, Aeronautical engineering, Production, Cost estimates, Reliability (U)
IDENTIFIERS: Program management (U)

This document examines a sample of seven aircraft airframe cost models. The intent is to determine whether the model output is reasonable over a broad range of inputs, what limitations should be noted, and where one model might be preferable to the others. The critique shows that all the models have some deficiencies and all should be used with caution. The more recent models appear to be better than the older ones, which may be taken as a sign of progress, but it is plain that more progress is needed. Some of the lessons learned in this review may be helpful in pointing out how the next generation of aircraft airframe cost models could be improved. (U)

AD-A047 181 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 167 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Procurement Contracting Officer's Guide to Cost Accounting Standards. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 77 140P Soderberg,Paul C. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Costs, *Accounting, *Government procurement, *Standards, Contract administration, Government employees, Specialists, Requirements, Job analysis, History, Cost overruns, Management planning and control, Accountability, Procurement, Theses (U)
IDENTIFIERS: *Cost accounting standards, Public law 91-379 (U)

This thesis is an exploration of the procurement contracting officer's role in implementing and administering Cost Accounting Standards. It introduces the procurement officer to the subject by discussing the history and development of Cost Accounting Standards, the functions of the Cost Accounting Standards Board, and the methodology utilized by the Department of Defense in implementing Public Law 91-379. The main objective is to define the tasks that Cost Accounting Standards have placed on the procurement officer. By understanding these tasks the procurement officer will better function in the procurement environment. A current literature search was conducted to obtain the information contained herein. The reader will not be confronted with technical accounting terms and will need only a basic knowledge of Government procurement to understand the subject matter. (Author) (U)

AD-A047 167 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 126 15/7 15/5 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Analysis of Major Training Area Operations in V Corps, US Army Europe. (U)

DESCRIPTIVE NOTE: Master's thesis,
DEC 77 149P Moore,Michael John ;
Teesdale,Thomas Joseph .

UNCLASSIFIED REPORT

DESCRIPTORS: *Military training, *Military operations, *Scheduling, *Logistics support, *Cost analysis, Computer applications, Theater level operations, West Germany, Military forces(United States), Military planning, Military budgets, Military transportation, Computer programs, Programming manuals, Theses (U)

This thesis presents the results of applying operations research to V Corps' Major Training Area (MTA) operations in the Federal Republic of Germany. The study examines three aspects of these MTA operations: the movement of tracked vehicles to training sites; the prediction and allocation of supply costs associated with MTAs and the scheduling of MTA operations. The thesis concentrates on developing methodologies which are immediately implementalbe by V Corps and which will assist the Corps commander and his staff in their efforts to solve problems in these three areas. The thesis develops a computer assisted scheduling system with a user's guide, and sets forth MTA covement costs and aspects of MTA supply costs for consideration by the commander and his staff in the decision making proccess. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A047 109 12/2 5/3

CORNELL UNIV ITHACA N Y SCHOOL OF OPERATIONS RESEARCH AND INDUSTRIAL ENGINEERING

Internal Telephone Billing Rates - A Novel Application of Non-Atomic Game Theory. (U)

DESCRIPTIVE NOTE: Technical rept.,
APR 77 19P Billera,Louis J. ;Heath,
David C. ;Raanan,Joseph ;
REPT. NO. TR-331
CONTRACT: N00014-75-C-0678, NSF-MPS-75-02024

UNCLASSIFIED REPORT

DESCRIPTORS: *Game theory, *Costs, Rates, Allocations, User needs, Public utilities, Telephone systems, Scheduling, Distribution(Economics), Mathematical programming (U)
IDENTIFIERS: *Billing, Nonatomic games (U)

The problem of determining rates is considered for a situation in which services are purchased in bulk, but they have to be paid for by a large number of small users. The desired rates must be 'fair' and they must cover all costs. The problem is formulated as a nonatomic game and solved by using the value of the game. In addition to the general problem, a detailed actual case is presented together with computational methods and results. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 70MO7

AD-A046 978 14/1 13/10 15/5 5/3

INTERNATIONAL MARITIME ASSOCIATES INC WASHINGTON DC

A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Appendices. (U)

DESCRIPTIVE NOTE: Final rept.
OCT 77 129RP
CONTRACT: N00024-77-C-2013

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Appendices to report dated 28 Oct 77, AD-A046 977. See also AD-A046 976.
DESCRIPTORS: *Naval vessels, *Naval procurement, *Cost estimates, *Shipbuilding, Cost analysis, Inflation(Economics), Labor, Materials, Japan, Sweden, Merchant vessels, Sizes(Dimensions), USSR, Nuclear powered submarines, Aircraft carriers, Shipyards, Cost overruns, Scheduling, Delivery, Modification, Aircraft, Guided missiles, Sonar equipment, Fire control systems, Weapon systems (U)
IDENTIFIERS: Overhead, Cost monitoring, General Accounting Office, Close in weapon system (U)

This section of the report provides an overview of the shipbuilding industry, placing into perspective the cost problems experienced in naval ship construction. It describes the nature of the industry and its problems, emphasizing: The concentration of the industry as reflected by an increasingly limited number of shipbuilders; The sudden, erratic movement in labor and material cost that has impacted shipbuilders worldwide; That NAVSEA's inability to accurately estimate costs in the recent environment is shared by shipbuilders in the U.S. and other countries; and General background data is also provided for reference purposes in understanding the environment within which NAVSEA must estimate future ship construction costs. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A046 977 14/1 13/10 15/5 5/3

INTERNATIONAL MARITIME ASSOCIATES INC WASHINGTON DC

A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. (U)

DESCRIPTIVE NOTE: Final rept.
OCT 77 468P
CONTRACT: N00024-77-C-2013

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Appendices dated Oct 77, AD-A046 978 and AD-A046 976.
DESCRIPTORS: *Naval vessels, *Naval procurement, *Cost estimates, *Shipbuilding, Cost analysis, Radar equipment, Fire control systems, Sonar equipment, Nuclear powered submarines, Labor, USSR, Inflation(Economics), Japan, Environmental protection, Minorities, Shipyards, Industries, Naval aviation, Naval shore facilities, Models, Performance(Human), Floating docks, Drydocks, Budgets (U)

This is a report about cost estimating in naval procurement and the ability of Navy estimators, particularly in the Naval Sea Systems Command, to adequately forecast required program funding. It is also an attempt to carefully ascertain where improvements can be made. It is recognized that the cost estimating problem is extremely complex and, if at all possible, improvements should be made. Obviously, the national interest is at the heart of the matter. It is believed that specific action can be taken by NAVSEA to improve its capability and inasmuch as other government and industrial organizations interact in procurement activities so profoundly, areas are pointed to where NAVSEA may want to suggest complementary actions by organizations outside its control. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A046 976 14/1 13/10 15/5 5/3

INTERNATIONAL MARITIME ASSOCIATES INC WASHINGTON DC

A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Executive Summary. (U)

OCT 77 58P
CONTRACT: N00024-77-C-2013

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A046 977 and AD-A046 978.
DESCRIPTORS: *Naval vessels, *Naval procurement, *Cost estimates, *Shipbuilding, Cost overruns, Inflation(Economics), Materials, Labor, Social welfare, Productivity, Labor unions, Cost analysis, Structures, Auxiliary, Weapon systems, Propulsion system components, Surveillance, Integrated systems, Army procurement, Computer applications, Industries, Nuclear powered submarines, Profits (U)

This is a report about cost estimating in naval procurement and the ability of Navy estimators, particularly in the Naval Sea Systems Command, to adequately forecast required program funding for ship construction and conversion. It is also an attempt to carefully ascertain where improvements can be made. It is recognized that the cost estimating problem is extremely complex and, if at all possible, improvements should be made. Obviously, the national interest is at the heart of the matter. It is believed that specific action can be taken by NAVSEA to improve its capability and inasmuch as other government and industrial organizations interact in procurement activities so profoundly, areas are pointed to where NAVSEA may want to suggest complementary actions by organizations outside its control. This document is a summary of a much longer Final Report which examines these important issues in depth. To the extent a short summary can analyze complex problems and outline proposed solutions, this document addresses that objective. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A046 829 17/9 1/5

TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MASS

Preliminary Limited Surveillance Radar (LSR) Cost/Benefit Analysis. (U)

DESCRIPTIVE NOTE: Final rept. Dec 76-Apr 77.
OCT 77 52P Rempfer, Paul S. ;
REPT. NO. TSC-FAA-77-16
MONITOR: FAA-ASP 77-10

UNCLASSIFIED REPORT

DESCRIPTORS: *Search radar, *Cost benefits, *Airport radar systems, Short range(Distance), Air traffic control systems, Air traffic control system analysis, Costs (U)
IDENTIFIERS: Limited surveillance radar (U)

This report presents the findings of a cost/benefit analysis of the deployment of a new Limited Surveillance Radar (LSR). An LSR is an inexpensive, single channel, short-range (about 20 miles), primary radar for use at approach control facilities which cannot economically justify an Airport Surveillance Radar/Radar Beacon System (ASR/RBS). An LSR can also be used in tower cabs to aid in VFR operation where a BRITE display is not feasible due to coverage limitations dictated by obstructions or distance from the parent radar facility. The study is preliminary in that it is brief and uses rough estimates and assumptions for both benefits and costs. Its purpose is to give a gross estimate of the current deployment potential of the LSR and to aid in decisions regarding further system analysis, development, and testing. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A046 810 5/1 6/5 5/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO

The Cost of Caring. (U)

DESCRIPTIVE NOTE: Master's thesis.
AUG 77 192P Hopkins,Doran L. ;
McMillen,Philip H. ;Mahr,Thomas A. ;
REPT. NO. AFIT-CI-77-82

UNCLASSIFIED REPORT

DESCRIPTORS: *Audiovisual aids, *Public relations, *Medical services, Costs, Information transfer, Mass media, Photographs, Community relations, Medical personnel, Colorado, Theses (U)

The Arapahoe Medica. Society (AMS) of Denver, Colo. approached the Dept. of Mass Communications, University of Denver, concerning the feasibility of a sound synchronized slide show to serve as a vehicle to inform the community about rising medical costs. The AMS Public Relations Committee requested that the slide show be designed for a cross section of the community, since they intended to present it to various civic organizations. In addition, they wanted the show presented to school audiences, elected government officials, and members of the electronic and print media. The authors recommended a 12-15 minute slide show that would be general in content and be used as part of a speaker's bureau program. This thesis describes their work in producing the slide show entitled: The Cost of Caring. Text of the script is included. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A046 808 9/2 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Preliminary Calibration of the RCA Price S Software Cost Estimation Model. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 77 110P Schneider,John . IV:
REPT. NO. AFIT/GSM/SM/77S-15

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programming, *Input, *Cost estimates, Data acquisition, Parameters, Avionics, Mathematical models, Systems analysis, Interfaces, Real time, On line systems, Calibration, Theses (U)
IDENTIFIERS: PRICE S software cost estimate model, Software (U)

Each year, the Department of Defense spends more than three billion dollars on computer software, yet software managers are notoriously unable to predict the cost of software development projects. This is especially true of preliminary cost estimates made during the formative stages of a project. Even when parametric relationships are used, such estimates depend heavily on anology with previously developed systems. The purpose of this research is to investigate ways of gathering and using descriptive data for the purpose of making preliminary software cost estimates. A methodology for the collection of descriptive information on software systems was developed and used to describe several avionics software systems. The data thus gathered was then used to 'calibrate' the PRICE S software cost estimation model by relating particular values of several 'subjective' PRICE S input parameters to the observed software system data. It was found that certain characteristics of software systems could be objectively measured, and that the PRICE S model is not incompatible with avionics software systems developed for the Aeronautical Systems Division of Air Force Systems Command. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A046 586 15/5 9/2 19/1

JOINT CONVENTIONAL AMMUNITION PROGRAM COORDINATING GROUP ROCK ISLAND IL DECISION MODELS DIRECTORATE

Analysts' Manual for the Multiple-Bid Evaluation Model for Procurement Planning and Placement. (U)

DESCRIPTIVE NOTE: Final rept. FY 1976-1977,
NOV 77 66P Todaro,John B. ;Robinson, George B. ;
REPT. NO. JCAP-DM-T710

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A043 844.
DESCRIPTORS: *Army procurement, *Cost analysis, *Ammunition, Dynamic programming, Logistics management, Contracts, Selection, Assessment, Allocations, Decision making, Multimode, Computerized simulation, Costs, Ranking, Computer program documentation, Mathematical models, Flow charting, Programming manuals, Army equipment, Military requirements, Logistics planning, Management information systems, Operations research (U)
IDENTIFIERS: *Multiple bid evaluation program, Bids, MBEM computer program, Bid evaluation (U)

This report documents the Multiple-Bid Evaluation Model (MBEM) as adapted and used by the JCAP Production and Mobilization Planning Division. The model uses dynamic programming to conduct bid analyses for selection of a combination of suppliers to be awarded portions of a total contract. These analyses include the finding of least cost and next least cost solutions for the total requirement and for fractions of the total requirement. In the case of procuring a single item for a single buy period, the model can also find least and next least costs for each possible number of suppliers. This additional analysis enables management to evaluate the costs of using additional suppliers in order to have a broader production base. The model consists of four independent computer programs for the following situations: (1) a single buy period and a single type item; (2) two buy periods, or two items for one buy period; (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A046 279 1/3 11/4 14/1

HUGHES HELICOPTERS CULVER CITY CALIF

Flight Test of a Composite Multi-Tubular Spar Main Rotor Blade on the AH-1G Helicopter. Volume II. Cost Estimates and Process Specifications. (U)

DESCRIPTIVE NOTE: Final rept. Jun 74-Jan 77.
AUG 77 79P Head,Robert E. :
REPT. NO. RH-76-281-Vol-2
CONTRACT: DAAJ02-74-C-0055
PROJ: 1F263211D841
TASK: 00
MONITOR: USAAMRDL TR-77-19B

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A046 176.
DESCRIPTORS: *Rotor blades, *Helicopter rotors, *Composite materials, *Cost estimates, Tubular structures, Spars, Filament wound construction, Industrial production, Production rate, Specifications, Tools, Flight testing, Labor, Manhours, Military requirements, Standards, Radar cross sections (U)
IDENTIFIERS: *AH-1G aircraft, PE63211A, AS841, WU003 (U)

The objectives of this program were to design a composite main rotor blade in the multi-tubular spar configuration to be directly interchangeable (in pairs) with the production metal (540) blades on the AH-1G helicopter, have increased fatigue life, invulnerability to the 23mm ballistic threat, low radar cross section, and low fabrication cost. Manufacturing technology was developed and described in a Process Specification. Laboratory, ground, and flight tests demonstrated that the wet filament wound, co-cured blade met, and in some cases surpassed, all objectives and could be adapted for Army service. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A046 665 15/5 5/3 12/1

FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO

Problems of the Improvement of Estimation, Account, Analysis and Forecasting the Prime Cost of Air Transportation. (U)

MAY 77 84P Miroshnikov,A. V. :
REPT. NO. FTD-ID(RS)T-0627-77

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Unedited machine trans. of Trudy. Rizhskogo Krasnoznamennogo Instituta Inzhenerov Grazhdanskoy Aviatsii imeni Leninskogo Komsomola, Riga (USSR) Sb. 7 and 8, Issue 216 p51-87 1972. Text in English; Tables in Russian.
DESCRIPTORS: *Air transportation, *Costs, Economic analysis, Forecasting, Mathematical models, Cost effectiveness, Equations, Maintenance, Trade off analyses, Aviation personnel, Cargo, Cost analysis, Scheduling, Translations, USSR (U)

Problems of the Improvement of Estimation, Account, Analysis and Forecasting the Prime Cost of Air Transportation--Translation.

AD-A046 665

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A046 621 13/6 5/3 14/1

ARMY TANK-AUTOMOTIVE MATERIEL READINESS COMMAND WARREN MI SYSTEMS ANALYSIS DIV

Maintenance Expenditure Limits (MEL) Tires. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 77 22P Kenley,Jack :
REPT. NO. TARCOM-SA-77-10

UNCLASSIFIED REPORT

DESCRIPTORS: *Tires, *Cost analysis, *Cost benefits, Maintenance, Repair, Reclamation, Nondestructive testing, Ultrasonic inspection, Costs, Cost effectiveness, Quality control, Replacement, Ground vehicles, Military vehicles (U)

IAC ACCESSION NUMBER: NT-015511
IAC DOCUMENT TYPE: NTIAC -MICROFICHE--
The objective of this study was to derive an approach to determine a valid Maintenance Expenditure Limit (MEL) for tires. Historical data and field tests results were examined. Initial data from a Product Assurance test in Ober Ramstadt Germany was also used. It was found that ultrasonic testing of tire carcasses could provide reliable information about the quality of the carcass and its useful remaining life. The reading from the ultrasonic testing device is adjusted so that a new tire reads 50% of full scale. It is estimated that about 22% of the 1100 x 20 tires coming in to be retread are defective based on an ultrasonic reading of 20% of full scale. If this defective percentage is applied to the top ranking 20 tires (in terms of retread dollars spent) the annual cost savings would be in excess of $1.000.000. A revised MEL for tires should state that tires be retread, given the carcass has at least one remaining life; the remaining life being determined by pass/fail ultrasonic measurement using the 20% full scale as the standard for now. It is recommended that testing continue to determine the exact correlation between ultrasonic reading and remaining tire life. (Author) (U)

IAC SUBJECT TERMS: N--(U)TIRES, MAINTENANCE, COSTS, COST EFFECTIVENESS, REPAIRS, ULTRASONIC INSPECTION, ULTRASONICS, QUALITY CONTROL, MILITARY EQUIPMENT, VEHICLES.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A046 277 11/8 13/6 5/3 13/2

SOUTHWEST RESEARCH INST SAN ANTONIO TEX ARMY FUELS AND LUBRICANTS RESEARCH LAB

Evaluation of Environmental and Economic Benefits through Use of Synthetic Motor Oils. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 77 32P Tosh,John D. ;Russell,John A. ;
REPT. NO. AFLRL-91
CONTRACT: DAAG53-75-C-0232

UNCLASSIFIED REPORT

DESCRIPTORS: *Lubricating oils, *Automotive vehicles, *Cost benefits, *Environmental management, Drainage, Oil filters, Intervals, Field tests, Maintenance, Specifications, Military requirements, Mineral oils, Synthetic materials, Crankcases, Test methods, Waste disposal, Operational test and evaluation (U)

Cost and environmental benefits of extended-drain engine lubrication were evaluated by means of a two-year field program at Letterkenny Army Depot, Pennsylvania. Four MIL-L-46152 crankcase lubricants (two mineral and two synthetic-base) were utilized in routine post operation. Each lubricant was assigned to one of four 25-vehicle fleets, and each fleet then operated exclusively on that lubricant. During this time there were no engine failures that could be attributed to the extended-drain program. Therefore, it is concluded that (a) extended-drain engine operation has potential for both economic and ecological benefits to Army field operations, and (b) the synthetic lubricants employed showed no particular performance advantages over the mineral oils. Consequently, the higher cost of synthetic lubricants would make them less attractive for widespread Army utilization. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A046 269 5/3 5/1 5/4

CENTER FOR NAVAL ANALYSES ARLINGTON VA

Cost-Effectiveness of Potential Federal Policies Affecting Research and Development Expenditures in the Auto, Steel and Food Industries. (U)

OCT 77 40P Goldberg,Lawrence ;
REPT. NO. CNA-Professional Paper-207

UNCLASSIFIED REPORT

DESCRIPTORS: *Industrial research, *Finance, *Research management, United States Government, Allocations, Policies, Cost effectiveness, Steel industry, Automotive industry, Food, Economic analysis, Cost estimates, Taxes, Credits, Time series analysis (U)
IDENTIFIERS: Food industry, Research and development, Prices, Demand(Economics) (U)

This paper contains the writer's preliminary analysis of the demand for company financed research and development expenditures (CR/D) in three manufacturing industries. Based upon estimates of the demand for CR/D, he estimated the costs and effects of two public policies that could affect R/D expenditures: (1) changes in the level of federally financed R/D expenditures; and (2) changes in the cost of private R/D through tax credits. He develops a capital theoretic framework in which he assumes that CR/D generates knowledge or 'research capital' that may increase output demand or reduce costs. Based upon his capital theoretic framework, the demand for the research capital stock is estimating using industry level time-series data for 1956-74. These time-series data enable him to obtain the first measures of changes in the price of knowledge upon the demand for CR/D, and also to measure the impact of changes in federal R/D expenditures upon CR/D. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A046 249 15/5 14/1 5/1

DECISION SYSTEMS DAYTON OH

A Study of the Cost-Effectiveness of Inventory Management Policies Based on Average Requisition Size. (U)

DESCRIPTIVE NOTE: Final rept. 3 Dec 76-31 Jul 77, AUG 77 6P Demmy,W. Steven ;
REPT. NO. RM-77-04
CONTRACT: F49620-77-C-0063
PROJ: 2304
TASK: 'A5
MONITOR: AFOSR TR-77-1230

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Rept. no. RM-77-01, AD-A046 154.
DESCRIPTORS: *Logistics management, *Inventory control, *Cost effectiveness, Inventory analysis, Procurement, Simulation, Cost models (U)

This paper summarizes the accomplishments and lists associated documentation associated with Decision Systems Contract F49620-77-C-0063. The object of the study was to evaluate the relative cost-effectiveness of three alternate formulas developed by Presuitti, and Trepp for use in depot-level EOQ inventory management. Simulation studies using actual demand histories for Air Force items were used to evaluate the operating characteristics of each formula. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A046 105 5/1

AIR FORCE ACADEMY COLO

A General Technique for R and D Cost Forecasting. (U)

DESCRIPTIVE NOTE: Final rept.. SEP 77 65P Weida,William J. ;
REPT. NO. USAFA-TR-77-12

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Research management, Forecasting, Department of Defense, Weapon systems, Costs, Data bases, Mathematical prediction, Defense planning, Military budgets, Cost models, Curve fitting (U)
IDENTIFIERS: Research and development, Growth curves, Prices (U)

A general model for R and D cost forecasting was developed based on an expenditure pattern analysis of twenty-one current weapon systems. This model which was validated on an additional twelve weapons systems, shows that R and D expenditures follow a certain, well-defined pattern, regardless of the type of system involved. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A046 012 12/2 14/1

COLORADO UNIV BOULDER SYSTEMS ENGINEERING LAB

Reduction of the Cost of Feedback in Systems with Large Parameter Uncertainties. (U)

DESCRIPTIVE NOTE: Interim rept.,
AUG 77 205P Rosenbaum,Patrick ;Horowitz, Isaac ;
CONTRACT: AFOSR-76-2946
PROJ: 2304
TASK: A1
MONITOR: AFOSR TR-77-1224

UNCLASSIFIED REPORT

DESCRIPTORS: *Control theory, *Cost analysis, *Systems engineering, Closed loop systems, Feedback, Tolerances(Mechanics), Control, Noise reduction, Power spectra, Time studies, Invariance, Nonlinear systems, Transfer functions, Mathematical filters (U)
IDENTIFIERS: WUAFOSR2304A1, PE61102F (U)

This work deals with the synthesis of feedback systems to achieve specified performance tolerances, despite large uncertainty in a constrained part of the system, denoted as the plant. Part of this work deals with linear time-invariant (lti) plants where the cost of feedback, if lti compensation is used, is primarily in the bandwidth of the feedback loop being much larger than that of the system as a whole - making the system very sensitive to sensor noise. Here, the objective is to reduce the loop bandwidth by means of non-lti compensation. The result is a very significant reduction in loop bandwidth and with it, system sensitivity to sensor noise. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A046 006 5/1 5/3

PURDUE UNIV LAFAYETTE IND

Strategic Implications of the Experience Curve Effect for Avionics Acquisitions by the Department of Defense. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 77 310P Cheney,William Fitch ;
MONITOR: AFIT CI-78-4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Doctoral thesis.
DESCRIPTORS: *Military procurement, *Cost models, Department of Defense, Manufacturing, Contracts, Costs, Quantity, Learning curves, Theory, Mathematical models, Parametric analysis, Air Force procurement, Avionics, Aircraft industry, Productivity, Economic analysis, Investments, Scale, Profits, Regression analysis, Theses (U)
IDENTIFIERS: *Experience curve theory, Prices, Competition, Specialization (U)

The Department of Defense (DoD) has supported numerous studies of learning curve theory, mainly in the context of the aircraft and airframe industries. However, no research has yet been documented with respect to experience curve theory (as distinguished from learning curve theory) for either buyers or sellers in the relatively specialized environment of the military market place. This dissertation describes investigations into the applicability and strategic implications of the experience curve effect for avionics purchases. While experience curve theory seeks to explain product cost-quantity and price-quantity relationships in terms similar to those of learning curve theory, it also recognizes the influences of such managerially controllable factors as investment, specialization, and scale. The most significant finding of this study confirmed the applicability of experience curve theory in the military market place in spite of the unique characteristics of that market (i.e., cumulative average unit price parallels cumulative average total manufacturing cost). (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A045 889 14/1 5/3 12/1

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF QUANTITATIVE BUSINESS ANALYSIS

Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties. (U)

DESCRIPTIVE NOTE: Technical rept.,
77 17P Blischke,Wallace R. ;
Scheuer,Ernest M. :
CONTRACT: N00014-75-C-0733

UNCLASSIFIED REPORT

Availability: Pub. in The Theory and Applications of Reliability, v2 p259-273 1977.
SUPPLEMENTARY NOTE: Prepared in cooperation with California State Univ., Northridge.
DESCRIPTORS: *Cost analysis, *Nonparametric statistics, *Guarantees, Life cycle costs, Reliability, Reprints (U)
IDENTIFIERS: *Warranties, Renewal theory, WUNR042323 (U)

Reprint: Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A045 753 19/6 5/3

ARMY ARMAMENT MATERIEL READINESS COMMAND ROCK ISLAND IL SYSTEMS ANALYSIS DIRECTORATE

105MM Howitzer Production Trade-Off Analysis. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 77 34P Trier,Norman H. :
REPT. NO. DRSAR/SA/N-69

UNCLASSIFIED REPORT

DESCRIPTORS: Howitzers, *Industrial production, *Cost analysis, Munitions industry, Maintenance, International trade, Military forces(Foreign), Income, Trade off analyses, Inventory analysis, Assessment, Investment expenditures, Army equipment, Army procurement (U)
IDENTIFIERS: *105-mm Howitzers, XM-204 Howitzers(105-mm), M-101A1 Howitzers(105-mm), M-102 Howitzers(105-mm), FMS(Foreign Military Sales), Foreign Military Sales (U)

This report addresses (a) the cost of producing XM204 Howitzers to replace the Army's current assets of M101A1 and M102 Howitzers, and (b) the potential net revenues (total revenues minus overhaul costs) of selling overhauled M101A1 and M102 Howitzers via Foreign Military Sales (FMS). For part (a), various mixes of XM204, M101A1, and M102 Howitzers were considered, and for part (b), various selling prices were considered. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A045 503 15/5

KAISER ENGINEERS OAKLAND CALIF

Plant Equipment Package (PEP) Modernization Program. Volume 7. PEP Economic model. (U)

JUN 77 129P
REPT. NO. 75-36-R-7
CONTRACT: DAAA21-75-C-0303

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Stetter Associates, Inc. See also Volume 8, AD-A045 504.
DESCRIPTORS: *Munitions industry, *Industrial equipment, *Management planning and control, *Cost analysis, National defense, Mobilization, Combat readiness, Army planning, Logistics planning, Production, Procurement, Military equipment, Logistics support, Trade off analyses, Mathematical models, Computer programs, Input, Flow charting (U)
IDENTIFIERS: *Plant equipment packages, *Modernization, PEP(Plant equipment packages) (U)

The PEP economic model assigns production to the PEP lines to satisfy mobilization requirements at a minimum cost. The model analyzes the tradeoff between each lines's inventory costs and modernization costs in selecting existing lines or their modernized counterparts to operate during mobilization. The least costly combination of lines is selected. The technique of mixed-integer linear programming, a standard procedure for solving cost optimization problems, was adapted to the PEP modernization problem. The objective of the linear model is to minimize the total system cost composed of inventory, production and modernization costs. (Author) (U)

AD-A045 503

UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A045 461 15/5 14/1 13/10

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Conventional AS Load List Study. (U)

SEP 77 54P Burdick,L. J. :
REPT. NO. 130

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval logistics, *Logistics support, *Inventory control, *Cost models, *Tenders(vessels), *Submarines, Economic models, Supplies, Normal distribution, Optimization (U)
IDENTIFIERS: Load list study, LPN-FMSO-971260 (U)

This study evaluates alternative techniques for computing conventional submarine tender load lists, given specified performance goals. Areas that are evaluated include: (1) the use of alternative demand distributions; (2) the use of alternative techniques for controlling range; and (3) the use of alternative optimization models. Alternatives are evaluated separately for equipment-related and nonequipment-related items. The various techniques are evaluated using actual submarine demand data. The models are evaluated in terms of units effectiveness, requisitions effectiveness, and range effectiveness. A common model is recommended for computing conventional and FBM (Fleet Ballistic Missile) submarine tender load lists. (Author) (U)

AD-A045 461

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A045 447 5/9 14/:

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Training Developments: A Means to Reduce Life Cycle Costs. (U)

DESCRIPTIVE NOTE: Study project rept., MAY 77 53P Caver,Troy Verno. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Teaching methods, *Cost benefits, *Job training, Military training, Cost models, Life cycle costs, Savings, Job satisfaction, Performance(Human), Investment expenditures, Equipment, Trade off analyses, Defense systems (U)
IDENTIFIERS: Project management (U)

This report examines new trainig concepts developed throughout DOD over the past decade. The concepts that show promise for reducing life cycle costs are considered for trade-offs with hardware developments. The process of trade-off considerations is treated with a marginal cost-marginal benefit analysis (put the investment where it provides the biggest return). Then a sensitivity analysis is conducted on parameters affected by training using a computer model to determine a trend in life cycle costs/ savings. It is concluded that many benefits can be derived by increasing the share of the investment in the training subsystem although it may be at the cost of the hardware subsystem in some cases. These investments appear to be best placed in training and technical documentation or in job performance aids. Not only should this type investment reduce the life cycle cost but also provide job enrichment, higher operational abailability, fewer maintenance personnel requirements, fewer training course requirements, increased systems effectiveness, and other savings. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A045 421 13/2 5/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Cost of Recycling Waste Material from Family Housing. (U)

DESCRIPTIVE NOTE: Final rept., SEP 77 61P Freeman .R. E. :Donahue.B. A. :Kloster.S. E. :Schanche.G. W. :Smith. E. D. ;
REPT. NO. CERL-TR-N-29
PROJ: 4A762720A896
TASK: T2

UNCLASSIFIED REPORT

DESCRIPTORS: *Waste recycling, *Solid wastes, Cost analysis, Costs, Military facilities, Housing(Dwellings), Residential section, Marketing, Resource management (U)
IDENTIFIERS: PE62720A, AS896, WU007 (U)

The purpose of this research was to determine the cost of recycling waste from a selected family housing area at Fort Bragg through source separation in order to evaluate the feasibility of solid waste recovery and recycling at a military installation. This report presents (1) analysis of the waste volume and composition from the Normandy Heights area at Fort Bragg. (2) data showing the current cost of refuse collection and disposal in the Normandy Heights area. (3) a market analysis for recyclable material in the Fort Bragg area, and (4) a design for the recyclable material recovery strategy that was tested and the costs associated with this strategy. (5) participation rates of Normandy Heights residents. (6) waste reduction rates, and (7) collection labor data. It was found that recycling by source separation could be cost-effective, could reduce the amount of refuse to be landfilled, and could decrease the number of weekly collections. It was established that military family housing refuse is comparable to that of the civilian sector and that military personnel are willing to participate in a source separation recycling program. The research indicated that experienced personnel should collect recyclables. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A045 415 9/2 14/1 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO

A Pre-Processor for a Structured Version of COBOL. (U)

DESCRIPTIVE NOTE: Master's thesis.
MAR 77 78P Hilb,Robert Clifford ;
REPT. NO. AFIT-CI-77-55

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *COBOL, *Preprocessing, *Costs, *Computer programming, Acquisition, Maintenance, Budgets, Digital computers (U)
IDENTIFIERS: Structured programming languages, Nesting(Subroutines), IF statements, DO UNTIL statements, PERFORM statements, Top down design (U)

A version of COBOL that permits structured programming was designed. It was implemented using a pre-processor that outputs standard COBOL. The pre-processor will indiscriminately run programs that are either structured or nonstructured, or with very limited restrictions- programs with a mixture of both. A structured IF was included as a modification of the COBOL IF. In line looping was created with a redefinition of the PERFORM, maintaining all of its capabilities and adding a DO UNTIL. The PERFORM was also modified to allow a CASE construct. All new structures are completely nestable. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A045 210 15/5 14/1

DRC INVENTORY RESEARCH OFFICE PHILADELPHIA PA

R. Q. Inventory Problem with Unknown Mean Demand and Learning (A Sequel). (U)

DESCRIPTIVE NOTE: Technical rept.,
SEP 77 23P Kaplan,Alan J. ;
REPT. NO. IR-77-6

UNCLASSIFIED REPORT

DESCRIPTORS: *Inventory control, *Cost models, *Spare parts, Mathematical models, Histograms, Integral equations, Methodology, Bayes theorem, Distribution functions, Poisson density functions (U)
IDENTIFIERS: Poisson distribution, Backorder costs (U)

Report concerning management of new items for which only a Bayesian prior distribution on the mean is available. As demand occurs, the prior is updated and reorder point and reorder quantity are revised. In an earlier paper, a heuristic solution to finding an optimum reorder point was presented. This report introduces an alternative cost structure, discounted cash flow, and adapts the heuristic approach to this cost structure. It reports on the results of simulation using real world demand data, which proved favorable to this approach. It discusses a modification to current approaches for determining cost of backorder. This report was motivated by concern with management of low failure items. For such items the discounted cash flow structure is most appropriate. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A045 164 13/8 9/5 15/5 15/3

SCIENCE APPLICATIONS INC MCLEAN VA MANUFACTURING TECHNOLOGY PROJECT OFFICE

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume III. Appendices. (U)

DESCRIPTIVE NOTE: Final rept.
JUN 77 258P
REPT. NO. SAI-MT-2010-Vol-3, SAI-78-524-WA-Vol-3
CONTRACT: N00039-77-C-0095

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A045 162.
DESCRIPTORS: *Manufacturing, *Electronic equipment, *Weapon systems, *Procurement, *Cost effectiveness, Naval equipment, Electric cables, Electron tubes, Integrated circuits, Printed circuit boards, Hybrid circuits (U)
IDENTIFIERS: Navionics, Cabinets, Top down analysis (U)

Contents: Electronics MT Project Descriptions; MT Incentives for Industry; Industrial Interview Objectives and Procedures; Army ECOM Conference -- Specific Findings; Top-Down Analysis of Navy Weapons Systems Electronics Costs; Economic Analysis and Computer Program Description; Equipment List and Study Results Related to Specific Findings; Bibliography. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A045 163 13/8 9/5 15/5 15/3

SCIENCE APPLICATIONS INC MCLEAN VA MANUFACTURING TECHNOLOGY PROJECT OFFICE

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume II. A Candidate Electronics Manufacturing Technology Plan. (U)

DESCRIPTIVE NOTE: Final rept.
JUN 77 134P
REPT. NO. SAI-MT-2010-Vol-2, SAI-78-524-WA-Vol-2
CONTRACT: N00039-77-C-0095

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A045 164.
DESCRIPTORS: *Manufacturing, *Electronic equipment, *Weapon systems, *Procurement, *Cost effectiveness, Naval equipment, Electric cables, Electron tubes, Integrated circuits, Printed circuit boards, Hybrid circuits (U)
IDENTIFIERS: Navionics, Cabinets, Top down analysis (U)

This volume contains a candidate manufacturing technology (MT) plan for Navy electronics formulated as a result of the study described briefly in Volume I and in detail in Volume III of this report. The purpose of this volume is to give information on the aspects of the program such as: (1) savings minus investment, (2) savings to investment ratio, (3) timeframe, (4) applicable weapons systems, and (5) manufacturing cost category of cost savings on an overall, as well as individual, project basis. (U)

AD-A045 162 13/8 9/5 15/5 15/3

SCIENCE APPLICATIONS INC MCLEAN VA MANUFACTURING TECHNOLOGY PROJECT OFFICE

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume I. Study Synopsis. (U)

DESCRIPTIVE NOTE: Final rept. 1 Dec 76-30 Jun 77, JUN 77 38P Knasel,T. M. ;McGahan,J. T. ;

REPT. NO. SAI-MT-2010-Vol-1, SAI-78-524-WA-Vol-1

CONTRACT: N00039-77-C-0095

MONITOR: GIDEP E119-0746

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A045 163.

DESCRIPTORS: *Manufacturing, *Electronic equipment, *Weapon systems, *Procurement, *Cost effectiveness, Naval equipment, Electric cables, Electron tubes, Integrated circuits, Printed circuit boards, Hybrid circuits (U)

IDENTIFIERS: Navionics, Cabinets, Top down analysis (U)

This study examined investment opportunities in Manufacturing Technology (MT) related to electronic systems procurement and presents an initial candidate plan for the FY80 to 84 timeframe. The major cost areas for electronic products were determined by a top down study of the detailed breakout of electronics subcomponent and labor categories. Results indicate that about half of electronics costs are found in seven key material areas. The remainder of the cost is apportioned into 4 labor areas. The breakout into 11 final categories is based on data for nearly 100 systems. These systems represent a broad spectrum of Navy electronics procurement. The 11 cost categories are cables and cabinets, sensors and special tubes, integrated circuits, small hardware and printed circuit boards (without components attached), discrete semiconductors, hybrid circuits, passive components, assembly labor, fabrication labor, support labor, and test labor. (U)

AD-A045 082 13/1 14/1 5/2

DECISIONS AND DESIGNS INC MCLEAN VA

An Attitudinal Study of the Home Market for Solar Devices. (U)

DESCRIPTIVE NOTE: Technical rept. Mar-Sep 77, SEP 77 71P Campbell,Vincent N. ;Brown, Rex V. ;Rhees,Thomas R. ;Repici,Dominic J. ;

REPT. NO. TR-77-5-25

CONTRACT: N00014-75-C-0426

UNCLASSIFIED REPORT

DESCRIPTORS: *Solar heating, *Commercial equipment, *Cost analysis, *Surveys, Public opinion, Attitudes(Psychology), Market research, Projection, Comparison, Public utilities, Statistical analysis, Computer applications, Correlation techniques (U)

This study estimates that 1.1 million American residences would have home and hot water heated with solar energy by 1985 if the total cost averaged $20 a month more than the cost of heating with fossil fuels, and initial costs were no barrier. An additional 7.2 million homes would have hot water alone heated with solar energy by 1985 if the total cost was $5 a month more. These are fairly favorable cost assumptions under current conditions. Almost half (44%) of potential homeowners surveyed would prefer to have their living spaces and hot water heated with solar energy if the total cost averaged $20 per month more than conventional heating and initial costs were no barrier. Although interest runs high, for various economic and technical reasons only about 1 in 75 American families may have both their home and water heated with solar energy by 1985. Any development that makes solar energy cost-competitive with fossil fuels for home heating will increase the level of market penetration. Another key to how quickly Americans will have solar homes is how fast builders and developers use solar energy in new homes and can assure good performance. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 897 12/2 5/3

STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH

Optimal Selling When the Price Distribution is Unknown. (U)

DESCRIPTIVE NOTE: Technical rept.,
SEP 77 26P Derman,C. ;Lieberman,G. J. ;Ross,S. ;
REPT. NO. TR- 85
CONTRACT: N00014-75-C-0561

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Columbia Univ., New York under Contract N00014-75-C-0620 and California Univ., under Contracts N00014-68-A-0200-1036 and DAHC04-74-C-0226.
DESCRIPTORS: *Business, *Systems approach, *Cost analysis, Decision making, Optimization, Distribution functions, Exponential functions, Modification, Recall, Bayes theorem, Random variables (U)
IDENTIFIERS: *Sales, Martingales, WUNR042002 (U)

This paper reconsiders the classical model for selling an asset in which offers come in daily and a decision must then be made as to whether or not to sell. For each day the item remains unsold a continuation (or maintenance cost) c is incurred. The successive offers are assumed to be independent and identically distributed random variables having an unknown distribution F. The model is considered both in the case where once an offer is rejected it may not be recalled at a later time, and in the case where such recall of previous offers is allowed. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 744 15/5 13/10 5/1

ADMINISTRATIVE SCIENCES CORP ALEXANDRIA VA

An Operating and Support Cost Model for Aircraft Carriers and Surface Combatants. (U)

DESCRIPTIVE NOTE: Final technical rept. 1 Sep 72-31 Jul 77.
SEP 77 74P Eskew,Henry L. ;Frazier, Thomas P. ;Heilig,Paul T. ;
REPT. NO. ASC-R-115
CONTRACT: N00014-73-C-0083

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval logistics, *Naval vessels, *Cost models, Naval operations, Naval equipment, Ship personnel, Cost estimates, Naval procurement, Combat support, Supplies, Repair, Maintenance, Spare parts, Modification, Parametric analysis (U)

The report is in two parts. Part I details the development and implementation of an operating and support cost model for aircraft carriers and surface combatants. Twenty-three O and S cost elements were identified and defined, with close adherence being maintained to the draft CAIG Operating and Support Cost Development Guide for Naval Ships, the Navy Resource Model (NARM), and the work of the Visibility and Management of Support Costs (VAMOSC) Study Group. Cost data were obtained from three principal sources: Navy Cost Information System (NCIS), NARM Program Factors, and the Center for Naval Analyses' SOCER Study. Procedures consisting of parametric cost-estimating relationships, cost factors and 'throput' estimates were developed for the full set of cost elements. Those procedures were incorporated into an automated model which was then used to estimate annual O and S costs for the DD-963 and the FFG-7. Part II of the report summarizes all the work accomplished under the contract and provides a listing of all technical reports submitted. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO Z0M07

AD-A044 609 9/2 5/3 5/1

DOTY ASSOCIATES INC ROCKVILLE MD

Software Cost Estimation Study. Volume II. Guidelines for Improved Software Cost Estimating. (U)

DESCRIPTIVE NOTE: Final technical rept. 23 Feb 76-23 Feb 77.
AUG 77 147P Doty,D. L. ;Nelson,P. J. ;Stewart,Kenneth R. ;
REPT. NO. TR-151-Vol-2
CONTRACT: F30602-76-C-0182
PROJ: 5581
TASK: 14
MONITOR: RADC TR-77-220-Vol-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A042 264.
DESCRIPTORS: *Computer programs, *Cost estimates, Acquisition, Scheduling, Policies, Budgets (U)
IDENTIFIERS: WURADC55811404, PE62702F (U)

This report contains guidelines for developing estimates of computer software cost. Consideration is first given to the initial program estimate which is often made with a paucity of supportive data. Adjustments are presented for modifying the estimate given the availability of additional data. Procedures are presented for assessing the affordability of the resulting estimates. Emphasis is placed on developing a conservative but reasonable best estimate for purposes of program budgeting. Separate consideration is given to steps that should be taken to bring the program in at or below budget. Frequently recurring problems are summarized in their time-phased order of occurrence. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A044 529 15/3 19/1

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

Cost Effectiveness of Smoke Screens Employed by Indirect Fire Means. (U)

DESCRIPTIVE NOTE: Final rept..
JUN 77 97P Brewer,Dennis W. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.
DESCRIPTORS: *Smoke screens, *Deployment, *Indirect fire, Cost effectiveness, Obscuration, Probability, Computerized simulation, Heuristic methods, Mathematical models, Mortars, Howitzers, Weather, Wind, Computer programs, Theses (U)

This thesis examines cost effectiveness of smoke screens employed by indirect fire means. Large area smoke employment means are included for comparison with the indirect fire means, and for demonstration of a potential source of smoke screens unfamiliar to many tacticians. Optimal tactics for smoke screen employment are not addressed. Two computer models are developed, one for indirect fire means (60mm, 81mm, and 4.2in mortars, as well as 105mm and 155mm howitzers) and one for large area means (smoke generators and smoke pots). Performance characteristics of indirect fire smoke ammunition are incorporated into the model based on recent experimentation by the U.S. Army Systems Analysis Activity. Smoke screens are described by input parameters, which are varied by a heuristic search procedure. These parameters (and their limits) include: weather (lapse, neutral, and inverse conditions with accompanying wind), screen duration (1 through 60 minutes), and sheaf width (100 through 1050 meters). Cost effective preferences are recommended for various smoke screen employment means. Possible areas for future research are suggested. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 508 5/1 15/5

ORC INVENTORY RESEARCH OFFICE PHILADELPHIA PA

Bare Bones: A Method for Estimating Provisioning Budget Requirements in the Outyears. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 77 43P Orr,Donald A. ;
REPT. NO. IRO-242

UNCLASSIFIED REPORT

DESCRIPTORS: *Army budgets, *Systems management, *Cost estimates, Cost models, Standardization, Mathematical prediction, Inventory control, End items(Products), Logistics support, Ranking, Criticality (U)
IDENTIFIERS: Project management, Cost curves, SIP(Standard Initial Provisioning), Initial provisioning (U)

Different methodologies and procecures are currently used by Project Managers/Commodity Commands in the Army to estimate initial provisioning funding requirements early in the development cycle of a system/end item. These estimates are to project support costs 1-5 years hence, but there has been a lack of quality, uniform methodology, and defensible rationale in the estimates. This paper develops a prototype methodology that reflects, early on, the quantities and costs that would be determined ultimately using the Standard Initial Provisioning model (SIP) just prior to the deployment of the end item in the budget execution year. An important pillar of the new procedure is a cumulative cost curve, generated from the provisioning costs of a small percentage of the total components, from which extrapolations are made of the total provisioning costs for the system. Selection of critical components is made by ranking parts by replacements per 100 end items x component unit price. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 295 13/11 13/8 14/1

NAVAL INTELLIGENCE SUPPORT CENTER WASHINGTON D C TRANSLATION DIV

Production of Pipes and Assembly of Pipelines and Pipe Systems on Ships (Izgotovlenive i Montazh Sudovykh Truboprovodov i Sistem). (U)

AUG 77 29P Ganov,E. V. ;
REPT. NO. NISC-Trans-3953

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Trans. of Mono., Leningrad, 1975 p5-12, 84-93, 102-109 and 123-126.
DESCRIPTORS: *Pipes, *Pipelines, *Production engineering, *Cost analysis, Assembly, Shipboard, Welding, Welded joints, Flanges, Life expectancy, Pipe fittings, Valves, Stainless steel, Copper nickel alloys, Brass, Linings, Polyethylene plastics, Zinc coatings, Translations, USSR (U)

Requirements put toward various pipe systems are dictated by application, environmental factors, class of ships and others. Among the most common requirements are the necessary mechanical strength, long service life, easiness in handling (machining assembly) and low cost. The mechanical strength is determined by various properties which are revealed during testing of samples, or the testing of individual pipes under laboratory conditions of the plant-supplier. The service life is determined by the stability of pipes against corrosion, erosion, aging and other destructive environmental forces. Economic considerations also occupy an important place in the selection of material for pipe systems. As a result the majority of the pipelines are built of inexpensive carbon steel pipes, regardless of their comparatively short service life. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A044 184 21/5 1/3 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Study of Opportunistic Replacement Tactics for Modular Jet Engine Management. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 77 148P Duvall,Thomas J. ;Goetz, Thomas J. ;
REPT. NO. AFIT-LSSR-29-77A

UNCLASSIFIED REPORT

DESCRIPTORS: *Turbofan engines, *Replacement theory, *Aircraft maintenance, *Cost effectiveness, Jet fighters, Modular construction, Repair, Maintenance, Maintenance management, Costs, Reduction, Inventory, Computerized simulation, Computer programs, Theses (U)
IDENTIFIERS: Opportunistic replacement, F-100 engines, F-15 aircraft, Preventative maintenance, Failure maintenance (U)

Opportunistic replacement for the F-100 engine has been previously studied to determine if an opportunistic replacement policy can save jet engine maintenance costs. The idea of opportunistic replacement is to replace an unfailed engine part before it fails while the engine is in the repair shop for some other reason (an opportunity). The costs that have been addressed in previous research are transportation, packing, manpower, parts, and depot overhaul costs. This study developed a method by which the impact of opportunistic replacement on spare engine and module inventory requirements can be assessed. Several different opportunistic replacement policies were studied and an optimum policy, based on the inventory costs and depot overhaul costs, was found. The optimum policy resulted in a 16 percent savings in initial inventory investment. Data was obtained from the Directorate of Propulsion and Auxiliary Power Systems, Headquarters, Air Force Logistics Command. (Author) (U)

AD-A044 184 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A044 172 21/5 5/3 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Investigation of the Relationship of Section Production Costs to Total Production Costs of Gas Turbine Engines. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 77 104P Greene,James K. ;Stark, Arthur E. ;
REPT. NO. AFIT-LSSR-34-77A

UNCLASSIFIED REPORT

DESCRIPTORS: *Gas turbines, *Life cycle costs, Turbofan engines, Turbojet engines, Cost estimates, Air Force procurement, Concept formation, INDUSTRIAL ENGINEERING, Validation, Industrial production, Specifications, Military requirements, Correlation techniques, Turbine parts, Regression analysis, Data acquisition, Theses (U)

The Air Force Aero Propulsion Laboratory is currently exploring techniques which may be used to estimate the production costs of gas turbine engines in the conceptual and validation phases of system acquisition. This study served as a part of that on-going exploration and was designed to investigate the relationship of engine section production costs to total production costs of gas turbine engines. The results of this research include the following findings: (1) correlation analysis provides an effective technique for determining those relationships; (2) among engine sections, costs of the high pressure turbine and compressor sections demonstrated the highest consistent correlations with total engine production cost; (3) regression analysis using the costs of high pressure turbine and compressor sections appears to hold promise for estimating total engine production cost; (4) a modification of the industrial engineering approach in which a cost estimate of the high pressure turbine section would be 'built up' and used, in turn, to estimate production costs of the complete engine also appears to hold promise; and (5) engine cost data presently collected and retained within the Air Force appear inadequate for estimating studies (U)

AD-A044 172 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A044 157 14/1 19/3

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Army Life Cycle Cost Model for Tracked Vehicle Systems, (U)

JUL 77 144P Marrone,Michael J. ;Clough, William S. ;Miler,Edward H. ;
REPT. NO. DCA-R-50

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost models, *Tracked vehicles, *Weapon systems, *Life cycle costs, Army operations, Cost estimates, Computer applications, Production engineering, Manufacturing, Quality control, Maintenance, Repair, Spare parts, Ammunition, Fire control systems (U)

The Army Life Cycle Cost Model for Tracked Vehicle Systems describes the methodology and rationale used for developing an estimate for all or part of the life cycle cost of a tactical tracked vehicle weapon system. The model is intended for use by cost analysts. It reflects the current doctrine for Independent Parametric Cost Estimates. Updates of this document will be made periodically as revisions or additions to the methodology require. The data base which supports the variables shown in the various equations throughout the model is published separately. (U)

AD-A044 157

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A044 101 14/1 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Air Force Cost Estimating Process: The Agencies Involved and Estimating Techniques Used. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 77 143P Lewis,Edwin M. ;Pearson, Eugene D. ;
REPT. NO. AFIT-LSSR-5-77A

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Weapon systems, *Air Force procurement, Logistics management, Methodology, Costs, Growth(General), Department of Defense, Literature surveys, Theses (U)

The Department of Defense is faced with the task of acquiring new weapon systems. These acquisitions have been characterized by a history of cost growth, while disparities exist among the cost estimates that are made by different organizations. The AF Business Research Management Center believes that few individuals have an overall, detailed perception of how the various cost estimates interrelate and this belief was substantiated by the research. An extensive literature review was accomplished. A model of the Cost Estimating Process as it appears in published sources was developed, including specific estimating techniques used. Four factors were identified which need attention if the accuracy of estimates is to be improved: (1) a standardized definition of 'accuracy'; (2) a feedback system tailored to the individual estimator; (3) a compendium of cost estimating techniques; (4) a standardized data base identifying the estimator, project, techniques used, and time frame of the cost estimate. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 099 5/1 5/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Analysis of the Cost Center Performance Measurement System. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 77 136P Covell,Philip A. ;Jones, Finch M. , Jr;
REPT. NO. AFIT-LSSR-2-77A

UNCLASSIFIED REPORT

DESCRIPTORS: *Management planning and control, *Cost effectiveness, Military organizations, Decision making, Supervisors, Accounting, Feedback, Finance, Resources, Allocations, Questionnaires, Factor analysis, Sampling, Theses (U)

The Air Force Cost Center Performance Measurement System (CCPMS) was implemented to provide a means for measuring the productivity of cost centers. Before all commands could fully implement the program, the Air Force made the CCPS report, the heart of the CCPMS, optional and eventually cancelled the CCPMS. This research was to determine the extent that major commands discontinued use of the CCPS when made optional, to determine if some managers did not find the CCPs useful, and to determine if some managers used the CCPS for decision making. The researchers found that the majority of major commands were apparently undermotivated towards the CCPMS and dropped the optional CCPS. From the analysis of cost center manager questionnaires, the researchers concluded that cost center managers found the CCPS to be not useful because it was not meaningful at their responsibility level, the output measures (for most cost centers) were not useful descriptors of output, and many managers received other more useful reports that contained the same information. The researchers recommend that a new output measurement program be established to meet the individual needs of cost centers, reflect the actual cost center's productivity and only feedback information concerning controllable costs. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 083 14/1 21/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Identification and Characterization of Cost Models/Techniques used by the Air Force Logistics Command to Estimate Jet Engine Operation and Support Costs. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 77 189P Davidson,George H. ; Griffiths,Raymond E. ;
REPT. NO. AFIT-LSSR-01-77A

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Jet engines, *Cost models, Logistics management, Decision making, Cost estimates, Air Force operations, Budgets, Development tests, Test and evaluation, Production, Logistics support, Military requirements, Theses (U)
IDENTIFIERS: Design (U)

The Life Cycle Cost (LCC) for jet engines includes the cost of design and development, test and evaluation, production, operation and support, and where applicable, disposal. Although only a small portion of the total LCC is incurred prior to production, the decisions made up to that point determine most of the total engine LCC. It is during this early design phase that there is insufficient operational information on the new engine to permit prediction of costs incurred during the operation and support phase of LCC. Estimation of LCC is further hindered by the absence of knowledge about techniques which could be used during engine design. This research involved a systematic investigation of the models and techniques used by the Air Force Logistics Command to estimate jet engine operation and support cost. These models and techniques are used in the areas of requirements determination for recoverable spares, engine overhaul, and total annual support-cost estimates for recoverable items. They are characterized to allow a determination as to their applicability for use during engine design. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 082 21/5 5/3 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 77 168P Baker,Michael D. ;Johnston, Bruce B. ;
REPT. NO. AFIT-SLSR-11-77A

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft engines, *Life cycle costs, *Costs, *Turbojet engines, *Turbofan engines, Logistics management, Work measurement, Maintenance, Logistics support, Inventory control, Ground support, Management planning and control (U)

This study is an attempt to locate, analyze and evaluate data bases which contain operation and support (O and S) cost data for aircraft engines. The search for these data bases was primarily conducted at Headquarters, Air Force Logistics Command. The study focused upon the Increase Reliability of Systems (IROS) data base, the H036B DOD Cost and Production Report, the AFM 400-1 actuarial data system, the cost and planning factors in AFR 173-10, aerospace ground equipment data located in the Tables of Allowance, and Component Improvement Program data located at the Deputy for Propulsion, Aeronautical Systems Division. The study of these data bases led to the conclusion that data bases in the Air Force are not well designed for cost data collection and that many data bases are necessary to obtain the total operation and support cost of an aircraft engine. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 046 1/3 14/1

BOEING AEROSPACE CO SEATTLE WA LOGISTICS SUPPOR AND SERVICES

Life Cycle Cost of C-130E Weapon System. (U)

DESCRIPTIVE NOTE: Interim rept. 29 Jun 76-3 Jun 77.
JUL 77 69P Brown,Frank D. ;Walker, Gary A. ;Wilson,David H. ;Dieterly,Duncan L. ;
CONTRACT: F33615-76-C-0052
PROJ: 1959
TASK: 00
MONITOR: AFHRL TR-77-48

UNCLASSIFIED REPORT

DESCRIPTORS: *Transport aircraft, Life cycle costs, Cost models, Cost estimates, Human resources, Materials, Cost analysis, Data acquisition, Air Force procurement, Air Force research, Resource management, Research management, Air Force operations, Operations research (U)
IDENTIFIERS: *C-130 Aircraft, C-130E Aircraft, WUAFHRL15590001, PE63751F (U)

Human and material resource data accumulated from all available Air Force sources is used to calculate the approximate life cycle cost (LCC) of the C-130E Hercules aircraft. The data was located, collected and reduced to computer files under another phase of the study. The Air Force Cost Analysis and Cost Estimating (CAFE) model was modified and used to calculate the C-130E LCC. Based on fifteen years of Air Force data (1962-1976) a LCC estimate was calculated. The methodology for determining the historical LCC may be applied to other systems. The primary difficulty in computing historical LCC estimates is the lack of required data files and the low quality control on many data variables. This research provides a methodology and a guide for accomplishing historical LCC on other weapon systems. The reason for determining historical LCC is to establish a baseline that can be applied to new weapon system development programs to identify possible areas for redesign to reduce future weapon system LCC. (U)

AD-A044 037 1/3 14/1

GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Methodology Improved Structural Cost Analysis. (U)

DESCRIPTIVE NOTE: Final rept. Jul 75-Feb 77.
MAY 77 281P Kenyon,R. E. :
CONTRACT: F33615-75-C-3148
PROJ: 1368
TASK: 05
MONITOR: AFFDL TR-77-24

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *Airframes, *Cost estimates, *Cost analysis, Weapon systems, Methodology, Costs, Production, Rates, Computerized simulation, Computer programs, Wing boxes, Bomber aircraft, Aircraft, Metals, Alloys (U)
IDENTIFIERS: Design to cost, Commonality, Scrappage, PE62201F, AFFDL13680505 (U)

This report describes a study to improve a previously developed weapon system costing methodology for aircraft airframes and basic structures under Contract F33615-72-C-2083. The methodology is part of a preliminary design level technique for the cost estimation flight vehicle structures. Applications of the method have indicated a number of areas where further study and development could be expected to provide an advanced state-of-the-art capability. This study was directed towards that end. The study was limited to the specific changes consisting of (1) development of complexity factors for technologies and materials represented by the advanced strategic bomber wing carry-through box, (2) modification of raw material cost estimating relationships (CERs) to increase sensitivity to material product form and type of scrappage, (3) investigation of additional assembly techniques and adding or modifying corresponding cost estimating factors, (4) modification of existing CERs to include evaluation of variations in the degree of commonality involved, (5) determination of the effect of production rate on recurring production costs. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A044 034 9/5 20/12 17/2.1

RAYTHEON CO WALTHAM MASS RESEARCH DIV

Cost-Effective GaAs Read IMPACT Transmitters. (U)

DESCRIPTIVE NOTE: Scientific rept. no. 1, 29 Mar-29 Sep 76.
MAY 77 97P Wallace,R. N. :
REPT. NO. S-2166
CONTRACT: F30602-76-0143
PROJ: 4600
TASK: 18
MONITOR: RADC TR-77-178

UNCLASSIFIED REPORT

DESCRIPTORS: *Impatt diodes, *Radio transmitters, *Microwave equipment, *Power amplifiers, Gallium arsenides, Cost effectiveness, Strip transmission lines, Epitaxial growth, Semiconductor devices, C Band, Frequency modulation, Data links, Hybrid circuits (U)
IDENTIFIERS: Read diodes, PE62702F, RADC46001803 (U)

The objective of this program is to develop a low-cost 5-GHz 40-W FM CW transmitter, using GaAs Read IMPATT diodes as RF power-generating elements, suitable for data-link applications. Results of work so far indicate that the RF performance goals for the transmitter can be achieved, but that size, weight, and primary power consumption goals will be exceeded. We have designed a transmitter system that separates the unit into four main subassemblies: a VCO-driver, a multidiode output stage, a multichannel current regulator, and a DC-to-DC inverter. The VCO-driver, producing 3.3-W output at 5 GHz, has been assembled and tested. Epitaxial wafers for the high-power GaAs Read diodes to be used in the output stage have been successfully grown. The best diode result obtained so far is 21-W CW output at 4.86 GHz with 29.5 percent efficiency, and five of six wafers processed have produced 15-W diodes. The diodes permit a four-diode output stage. Six monthly shipments of six diodes representative of those to be used in the output stage have been made to RADC. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A044 029 5/9 14/1

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO FLA

Academic Attrition from Navy Technical Training Class 'A' School Courses. (U)

DESCRIPTIVE NOTE: Final rept. Nov 76-Jun 77,
JUL 77 56P Middleton,Morris G. ;Rankin, William C. ;Green,Eric K. ;Papetti,Clarence J. ;
REPT. NO. TAEG-47

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval training, *Attrition, *Cost analysis, Naval personnel, Enlisted personnel, Courses(Education), Trainees, Correlation techniques (U)

Attrition of enlisted personnel during first tour enlistment has become a major area of concern in the all-volunteer U.S. Navy. Attrition from the 'A' school training environment was perceived to be a part of the overall attrition problem. This study investigated 147 A1 and A3 Navy courses to: identify factors associated with academic attrition; identify the extent and pattern of attrition in these courses; and determine the overall and specific cost of academic and nonacademic attrition. Extensive data are provided on over 20 variables. Major variables are academic attrition, nonacademic attrition, qualified inputs, unqualified inputs, and cost per equivalent graduate. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A043 836 1/5 14/1

FEDERAL AVIATION ADMINISTRATION WASHINGTON D C OFFICE OF AVIATION SYSTEM PLANS

Remoteness-Compensation Methodology for Benefit/Cost Establishment and Discontinuance Criteria. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 77 57P Loughlin,Richard M. :
REPT. NO. FAA-ASP-76-7

UNCLASSIFIED REPORT

DESCRIPTORS: *Terminal flight facilities, *Air traffic control systems, *Remote areas, *Cost benefits, Air transportation, Remote systems, Remote terminals, Facilities, Construction, Costs, Installation, Housing(Dwellings), Alaska, Methodology, Compensation (U)
IDENTIFIERS: Airway Planning Standard Number 1 (U)

This report develops a procedure for adjusting the benefit/cost (B/C) ratios by which proposals for FAA terminal facilities in remote locations are evaluated. The procedure is applicable to the types of installations for which B/C analyses, based on nationwide average data, are incorporated in Airway Planning Standard Number One (FAA Order 7031.2B). Without such an adjustment, proposals for facilities in Alaska and other such locations could not realistically be compared with those for facilities in the contiguous 48 states (CONUS). The compensatory methodology first adjusts construction and installation costs according to a geographically differentiated index. Staff housing cost is subtracted. Exceptional site-preparation and other cost elements are not discarded, but their cost is made equivalent to the cost of doing the same work at a corresponding CONUS site. Next, for facilities to serve remote communities shown to be exceptionally reliant on air transportation, the ascribed benefits are adjusted upward. This benefit enhancement is proportional to the communities' aviation-dependency as determined by the model contained in this report, but it is not permitted to more than double intrinsic benefits. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A043 834 5/9 14/1

AIR TRAINING COMMAND RANDOLPH AFB TEX DIRECTOR OF OPERATIONS ANALYSIS

The TPR Process and Impact of Fluctuations. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 76 54P Petrick,George S. ;
REPT. NO. 76-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force training, *Cost analysis, *Recruits, *Air Force personnel, Military requirements, Enlisted personnel, Instructors (U)
IDENTIFIERS: Fluctuations, Trained personnel requirements (U)

The objectives were: (1) determine the cost of trained personnel requirements (TPR) fluctuations; (2) identify authorization tolerances with which the MAJCOMS could live; (3) identify areas of responsibility in the TPR environment; and (4) propose solutions that would enable Air Force and ATC to reduce TPR turbulence. The principal cost of TPR turbulence is associated with technical training enlisted instructors. Additional costs, in the form of loss of investment, are incurred when training has been rendered but is no longer needed. Costs associated with base operating support and contract services are considered negligible when compared with instructor turbulence costs. Total dollar cost attributed to TPR variations in FY 76 is about $8.8 million. An additional cost in mission degradation associated with undermanning was found to be 262 man-years. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A043 360 5/1 14/1 5/3

CENTER FOR ECONOMIC ANALYSIS FAIRFAX VA

A Compilation of Methodological Problems Confronting the Air Force in the Fields of Economics and Management. Phase I. (U)

DESCRIPTIVE NOTE: Interim scientific rept.,
77 50P Bloch,Howard R. ;Marlin, James W. , Jr.;Wiest,Philip R. ;Snavely, William P. ;
CONTRACT: AF-AFOSR-3168-77
PROJ: 2313
TASK: A3
MONITOR: AFOSR TR-77-0992

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Economic Basic Research Problems.
DESCRIPTORS: *Resource management, *Cost effectiveness, *Air Force research, *Research management, Problem areas, Military requirements, Effectiveness, Assessment, Standards, Productivity, Work measurement, Motivation, Personnel management, Weapon system effectiveness, Operational effectiveness, Cost estimates, Management planning and control, Economic analysis, Air Force planning, Decision making, Allocations (U)
IDENTIFIERS: *Measures of effectiveness, Priorities, WUAFOSR2313A3, PE61102F (U)

Interviews were conducted with Air Force decision-makers and analysts of all ranks and from all levels of organization. The purpose was to ascertain the basic research needs of the Air Force in the fields of economics and management. Over one hundred separate research requirements were identified. The gaps in knowledge which were most often mentioned were in measurement output so as to determine effectiveness of programs, in measuring costs, in determining the most effective management techniques and motivations, in determining proper variables on which to make projections, and in selecting criteria by which to judge programs. A number of questions posed appear answerable by the research community. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A043 265 1/3 9/3 14/1

RAND CORP SANTA MONICA CALIF

Avionics Data for Cost Estimating. (U)

MAR 77 20P Armstrong,Bruce E. ;
REPT. NO. P-5745-1

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
SUPPLEMENTARY NOTE: Presented at DoD Cost Analysis Symposium (1976) Held in Airlie, Va., on 14-17 Nov 76.
DESCRIPTORS: *Avionics, *Cost estimates, *Tactical aircraft, *Electronic equipment, Data bases, Technology, Costs, Electronics, Data acquisition, Department of Defense (U)
IDENTIFIERS: AN type equipment (U)

Avionics cost has been a continuing problem to the defense cost analyst. The various services and the Office of the Secretary of Defense (OSD) have sponsored numerous avionics data collection efforts, as well as funding various companies to develop cost models and cost estimating relationships. To mention a few, both the Air Force and the Navy, and research firms such as General Research Corporation (GRC), Research Management Corporation (RMC), and Institute for Defense Analyses (IDA), have all been involved at one time or another with efforts to develop the avionics cost estimation methods and a supporting data bank. The reason for this level of effort is that the costs of avionics account for nearly 30 percent of the total costs of fighter aircraft and a significant amount in most other aircraft types. Yet, because of rapid technological change, typically small production runs, and poor historical cost information, reliable prediction of avionics costs has been impeded. This paper discusses a recent Rand study sponsored by OSD/Director of Planning and Evaluation (DP and E) which had the objective of creating an avionics data base for tactical aircraft. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A043 034 14/1 15/5 5/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Logistic Support Cost Commitments for Life Cycle Cost Reduction. (U)

JUN 77 45P Collins,Dwight E. ;
REPT. NO. LY1-75-1/5
CONTRACT: SD-321

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Cost analysis, *Logistics management, Reduction, Design to cost, Logistics support, Weapon systems, Department of Defense, Cost models, Uncertainty, Assessment, Risk analysis, Statistical analysis, Reliability, Maintainability, Test methods (U)

In its efforts of recent years to reverse the trend of increasing operating and support (O and S) costs of weapon systems and equipment, the Department of Defense (DoD) has begun to use several new contracting techniques to transmit Government cost reduction goals to the Contractor during equipment development and production. One of these techniques is the Logistic Support Cost (LSC) Commitment. The LSC Commitment has three primary elements: (1) a target logistic support cost (TLSC) defined in terms of a cost model framework, (2) a field verification test procedure, and (3) a contract remedy or price adjustment based on verification test results. This report summarizes results of a recent study which investigates the incentives conveyed by the LSC Commitment and the risks accompanying its implementation. It focuses particularly on the impact of statistical risk on the interpretation of verification test results, and presents guidance for structuring future LSC Commitments. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A042 938 5/1

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Special Termination Costs Clause. ASPR 8-712. (U)

DESCRIPTIVE NOTE: Study project rept.,
MAY 77 30P Vachon,Raymond F. :

UNCLASSIFIED REPORT

DESCRIPTORS: •Cost effectiveness. •Contract administration, Management planning and control, Military budgets, Law(Jurisprudence), Military procurement, Regulations (U)
IDENTIFIERS: •Termination costs (U)

The purpose of this study project is to assist Program Managers and/or other interested persons in becoming familiar with the use of the Special Termination Costs Clause as stated in paragraph 8-712 of the Armed Services Procurement Regulation. Much of the material contained in the report was obtained by interviewing knowledgeable persons who have worked with the clause and by reading numerous reports and other documentation on the subject matter. The clause has been used in contracts only to a limited extent by the Services, primarily the Air Force. The major obstacles to increased use of the clause appear to be the small number of contracts which meet the required dollar criteria as stated in the ASPR and the possibility of violating the Anti-Deficiency Act if funds are not available to pay termination costs. The opinion of most agencies working with the clause, is that it is not necessary to have the funds cited in the clause prior to the determination to terminate the contract for the convenience of the Government. The report recommends that Program Managers make maximum use of the special termination Costs Clause when appropriate. If used, the supporting budget office should be informed of the potential liabilities over and above the dollars obligated: (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A042 935 14/1 5/1

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Using Cost Analysis to Break the Overrun Habit. (U)

DESCRIPTIVE NOTE: Study project rept.,
MAY 77 100P Grimm,Richard William :

UNCLASSIFIED REPORT

DESCRIPTORS: •Cost analysis. •Cost overruns. •Contract administration. Systems management. Parametric analysis. Problem areas. Control. Growth(General). Cost estimates. Error analysis (U)

This report is a treatise on cost analysis and cost management intended primarily to orient personnel unfamiliar with them. Major factors contributing to program cost problems are highlighted. The results of several studies on cost growth are portrayed, and several recommendations are made for controlling cost. Cost analysis responsibilities and methodology are presented in detail and examples are used. Parametric methodology is emphasized heavily as this is the government's primary technique. Analytical and institutional problems are discussed and on-going research to solve them is described. the report closes with a discussion of how the program director and cost analysts can work together to help break the overrun habit. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A042 933 15/5 14/1 12/2

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Initial Operational Support: An Alternate Approach. (U)

DESCRIPTIVE NOTE: Study project rept., APR 77 43P Smith,John L. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Army procurement, *Cost analysis, Logistics management, Logistics support, Maintenance management, Maintainability, Reliability, Life cycle costs, Aircraft maintenance, Cost effectiveness, Contract administration (U)
IDENTIFIERS: Program management (U)

The purpose of the project was to provide a rationale for reevaluating the manner in which weapon systems are introduced into the operational inventory. An alternative approach to this is then proposed. The suggested alternative was based on the author's experience in fielding three systems in two separate programs from a position within the acquisition organization. Facts, assumption, and conclusions necessary to support the proposed alternative are documented by reference to separate, independent research sources. The resulting approach is an amalgam from the programs worked directly by the author and the experience of associates in similar endeavors. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A042 904 5/9 5/1

ARMY CONCEPTS ANALYSIS AGENCY BETHESDA MD

Cost Effectiveness Analysis of Bonuses and Reenlistment Policies (CEABREP). (U)

DESCRIPTIVE NOTE: Final rept., AUG 77 203P Anderson,Calvin M. :Holtry, Anthony K. :Plourde,Rene :
REPT. NO. CAA-SR-77-10

UNCLASSIFIED REPORT

DESCRIPTORS: *Reenlistment, *Computerized simulation, *Personnel retention, *Cost analysis, Army personnel, Manpower, Specialists, Trade off analyses, Personnel management, Policies, Decision making, Allocations, Military force levels, Forecasting, Motivation, Demography, Money, Army planning, Cost effectiveness, Mathematical prediction, peacetime, Flow charting (U)
IDENTIFIERS: *Bonuses, *Military occupational specialties (U)

To manage the bonus program effectively, the Army must first accurately predict personnel imbalances by Military Occupational Specialty (MOS) and then estimate the bonus level and/or policy decisions which would be necessary to alleviate potential disparities. The CEABREP study addresses both the force projection process and the factors influencing reenlistment behavior. The report consists of six chapters supported by technical appendices. Chapter 1 provides introductory material and background. The methodology formulated to analyze the reenlistment environment is the subject of Chapter 2. MOS-unique continuation rates which were developed to improve the accuracy of force projections are discussed in Chapter 3. An analysis of retention factors is in Chapter 4 and alternatives to bonuses are identified in Chapter 5. The final chapter of this report presents the major observations. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A042 795 6/5 5/10 14/1

PRESEARCH INC ARLINGTON VA

Summary of Cost-Benefit Study Results for Navy Alcoholism Rehabilitation Programs. (U)

DESCRIPTIVE NOTE: Final rept..
JUL 77 41P Borthwick,R. B. ;
REPT. NO. PI-TR-346
CONTRACT: N00123-77-C-0910

UNCLASSIFIED REPORT

DESCRIPTORS: *Rehabilitation, *Alcoholism, *Cost benefits, Personnel management, Policies, Economic analysis, Naval personnel, Marine Corps personnel, Replacement, Drug abuse, Personnel retention, Careers, Therapy, Effectiveness, Residential section, Health care facilities, Naval shore facilities (U)

This report summarizes the results of the cost-benefit studies carried out for the Department of the Navy's (DoN) Alcoholism Prevention Program (NAPP). This work focuses on the effects of the resident treatment programs on replacement, hospitalization, accidents, jurisprudence and productivity aspects of Navy and Marine Corps operations. Aggregated economic costs and losses due to alcohol abuse in the DoN are estimated and presented. The report concludes that the existing resident treatment effort for alcoholics is highly cost effective and in the best interests of the Navy and Marine Corps. Further, the annual economic losses to the DoN are of such magnitude that continued efforts toward alcoholism prevention and earlier identification of alcoholics are warranted. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A042 780 5/1

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

The Impact of Independent Cost Analyses on DOD Acquisition Management. (U)

DESCRIPTIVE NOTE: Study project rept..
MAY 77 45P Wrobel,John Eugene , Jr.

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Management planning and control, Acquisition, Cost estimates, Defense planning, Decision making, Military budgets, Inflation(Economics) (U)

The purpose of this study was to review the impact of the DOD policy requiring Independent Cost Analyses (ICA). The study consisted of interviews with selected acquisition and cost analysis managers as well as a review of the current literature, including US General Accounting Office reports. Increased system costs have been attributed to poor cost estimating. Since the inception of ICAs, cost growth has been reduced. This reduction would seem to result from the increased emphasis on cost estimates directly related to the high visibility given to the ICA. The study concludes the program manager can use the ICA to offset stresses inimical to his program, and notwithstanding the continued need for better estimating, major improvements in cost control will now have to come from other areas of management. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A042 777 15/3 15/5 5/1 14/1
15/7

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Acquiring Affordable Weapons Systems. (U)

DESCRIPTIVE NOTE: Study project rept.,
MAY 77 87P Singer,Robert A. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Defense systems, *Weapon systems, *Systems management, *Military planning, *Logistics planning, *Cost analysis, *Cost models, Life cycle costs, Reliability, Military procurement, Maintainability, Acquisition, Manpower, Data bases (U)
IDENTIFIERS: Systems acquisition, Program management, Affordable weapon systems, VAMOSC(Visibility and Management of Support Costs), Visibility and management of support costs (U)

This project attempts to examine the approaches being taken to reduce the O and S cost implications of systems being acquired, and to examine the potential effectiveness of these approaches. The project was conducted by interviewing key people within OSD and the services currently participating in outyear cost management, by researching recent available literature on the subject, and by integrating the results into a capsule summary and evaluation of current activities. A series of efforts are ongoing. New draft management directives have been prepared in OSD and the Services aimed at infusing affordability considerations more heavily throughout the acquisition process. O and S cost data banks are being constructed by the Services to provide weapon system and subsystem cost visibility. Innovative procurement procedures and affordability management techniques are being used successfully on some new system acquisitions. Considerably more effort is required before more affordable weapons systems become reality. This includes integration and increasing responsiveness of diverse organizational units, improvements in cost estimation, building of a suitably detailed cost data base, and consideration of logistics support, (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A042 771 5/9 14/1 5/1

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Training Package: Foreign Military Sales (FMS) Agreements (Planning and Costing). (U)

DESCRIPTIVE NOTE: Study project rept.,
MAY 77 68P Davis,William E. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Management training, *Military procurement, *Cost estimates, Army training, Cost analysis, Curriculum, Systems analysis, Systems management, Weapon systems, Acquisition, Military forces(Foreign), Costs, Reports, Management planning and control (U)
IDENTIFIERS: *Training management, Program management, Foreign military sales (U)

The purpose of this paper is to analyze Training and Doctrine Command (TRADOC) curriculum development directives and DOD directives related to systems acquisition. The author seeks to show the similarities of the procedures and processes used in each, and to indicate how more accurate training cost estimates are possible through thorough training requirement analysis. The study identifies documents that are related to cost reporting which can be used in conjunction with the curriculum development directives to provide a valid basis for more accurate cost estimating where training costs must be included in a package type Foreign Military Sales (FMS) case. The study takes advantage of the author's experience, gained in an on-going program, to show how pitfalls may be avoided, where advanced planning must be accomplished, and required funds, facilities, equipment, personnel, and other training related items projected. A brief planning model is provided. Also included are sample forms which will be useful in doing the training analysis, formulating the overall training plan, and organizing it in a manner which makes the cost track easier to follow. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A042 628 13/3 14/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Corrosion Costs of Air Force and Army Facilities and Construction of a Cost Prediction Model. (U)

DESCRIPTIVE NOTE: Final rept. 1 Jul 75-30 Oct 76,
JUL 77 71P Hahin,Christopher ;
REPT. NO. CERL-TR-M-224
PROJ: 4A762719AT41
TASK: T7
MONITOR: AFCEC TR-77-17

UNCLASSIFIED REPORT

DESCRIPTORS: *Construction materials, *Corrosion, *Cost analysis, Mathematical models, Air Force facilities, Army, Military facilities, Soils, Costs, Construction, Electrical conductivity, Air pollution, Energy consumption, Climate, Topography, Predictions, Water pollution (U)
IDENTIFIERS: WU001, AST41, PE62719A (U)

The facility maintenance organizations of several Air Force and Army installations were analyzed to determine the percentage of their direct maintenance, repair or replacement efforts that were corrosion-related. Also included were the costs of designing and inspecting corrosion-related construction projects. This raw data was processed and correlated with climatological, geographic and environmental statistics to develop a predictive corrosion cost model. The resulting empirical equations are able to predict facility corrosion costs and classification with reasonable accuracy, as a function of installation dimensions and capacities, and readily obtainable weather, soil and air quality data. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A042 460 5/1 14/1 5/3 9/2

RAND CORP SANTA MONICA CALIF

Introduction to the USAF Total Force Cost Model. (U)

DESCRIPTIVE NOTE: Interim rept .
JUN 77 68P Massey,H. G. ;
REPT. NO. R-2098-AF
CONTRACT: F49620-77-C-0023

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force budgets, *Cost estimates, *Air Force operations, *Air Force planning, *Economic models, Computerized simulation, Forecasting, Systems analysis, Advanced systems, Manpower, Air Force procurement (U)
IDENTIFIERS: Total force cost model, Military force structure (U)

Designed to produce time-phased total manpower and dollar requirements estimates for 15-year projections of alternative future USAF forces and support structures, the USAF Total Force Cost Model--sometimes referred to as the FORCE model--is currently operating on computers in the Air Staff Cost and Economic Analysis Division, Directorate of Management Analysis, Comptroller of the Air Force. This report presents an overview of the model, including its basic purposes and its relationship to the planning and programming process. Some examples and suggested applications are presented. Only the general features of the model and the methodology it employs are discussed. The FORCE model has potential for application in analysis of future forces for research and development planning: studies of alternative weapon systems for mission-oriented subsets o the force; and analysis of alternative future basing plans, training structure, or other support issues. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A042 405 5/1 9/2

NAVAL SURFACE WEAPONS CENTER DAHLGREN LAB VA

Computer Model for Life Cycle Costing. User's Guide. (U)

DESCRIPTIVE NOTE: Technical rept., MAY 77 52P McLaughlin,Wayne ;
REPT. NO. NSWC/DL-TR-3645
MONIT. : GIDEP,GIDEP E076-0153,195.20.00.00-W4-03

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Mathematical models, Computer programs, FORTRAN, Weapon systems, Acquisition, Cost analysis, Algorithms, Data processing (U)
IDENTIFIERS: Interactive systems (U)

This report provides instructions for operating the computer program which models life cycle costs for equipment acquisitions. The program, written in the Fortran IV Extended programming language, was implemented on the CDC 6700 computer under the SCOPE 3.4 operating system at the Naval Surface Weapons Center, Dahlgren, Virginia, in January, 1977. Designed for use from an intercom terminal in an interactive manner, the model has a wide variety of built in capabilities which can greatly facilitate the task of performing life cycle cost analysis. A detailed discussion concerning the use of each feature is presented. This is then expanded into an overall description of the program's operating sequence, to aid the potential user in ascertaining if the model can be used to meet his specific needs. The remainder of the report is devoted to the actual operation of the program. Execution involves the sequential display of requests by the terminal for input, followed by responses typed by the operator. Thorough coverage is given to the choices available to the user in each situation, including examples of input and output. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A042 385 21/4 14/1 13/8

BECHTEL CORP SAN FRANCISCO CALIF

Coal Gasification Study Handbook. (U)

DESCRIPTIVE NOTE: Final rept., APR 77 103P
CONTRACT: N68305-76-C-0009
PROJ: F57571
TASK: ZF5757100
MONITOR: CEL CR-77.014

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
SUPPLEMENTARY NOTE: See also Rept. no. CEL-CR-77.013, AD-A041 860.
DESCRIPTORS: *Coal, *Coal gas, *Pollution abatement, *Gas generating systems, *Cost analysis, Emission, Boilers, Sulfur, Handbooks (U)
IDENTIFIERS: *Coal gasification, Fuel gas, WU01015, PE62765N (U)

The purpose of this handbook is to provide: first, a procedure for evaluating the costs of a coal gasification plant in terms of the capital investment and operating costs. These are to be sensitive to several parameters defining coal, fuel gas, and sulfur emissions; second, a procedure for the derating of Navy base boilers, to reflect the change in performance resulting from introduction of fuel gas in place of coal or oil. The gas plant analysis is based in part on a detailed analysis of the gas treatment section of the plant. The remaining part of the plant performance is based on conventional stoichiometry and near approach to equilibrium in the gas production section. The boiler derating method is based on observations of the relative contribution to heat transfer made by radiation and convection, and on conventional relations describing these transfer processes. (Author) (U)

AD-A042 314 14/1 9/2 12/1

OFFICE OF THE PROJECT MANAGER SELECTED AMMUNITION DOVER N J

A Computer Program for Tracking Cost/ Schedule Control Systems Criteria. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 77 98P Smith,Louis M. ;
REPT. NO. PMSA-2-5

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *Cost models, *Scheduling, *Control systems, *Computer programs, Mathematical models, Digital computers, Contract administration, Change detection, Tracking, FORTRAN (U)
IDENTIFIERS: Cost control, Schedule control, CDC-6500 computers, CDC-6600 computers (U)

Report describes a computer program that provides a means for tracking contractor's performance where Cost/Schedule Control Systems Criteria are utilized. The program was specifically designed for the CDC 6500/6600 computer at USA Armament Research and Development Command, Dover, ! . Input data are those normally found in a contractor's Cost Performance Report. Program output is a series of Cost and Schedule Performance Index graphs, a summary variance graph, and a set of tables. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A042 264 9/2 14/1 5/3

DOTY ASSOCIATES INC ROCKVILLE MD

Software Cost Estimation Study. Volume I. Study Results. (U)

DESCRIPTIVE NOTE: Final technical rept. 23 Feb 76-23 Feb 77,
JUN 77 212P Herd,James H. ;Postak,John N. ;Russell,William E. ;Stewart,Kenneth R. ;
REPT. NO. TR-151-Vol-1
CONTRACT: F30602-76-C-0182
PROJ: 5581
TASK: 14
MONITOR: RADC TR-77-220-Vol-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programs, *Cost estimates, *Cost models, Control, Cost analysis, Command and control systems, Business, Scientific research, Data reduction, Reliability, Development tests, Adverse conditions, Impact (U)
IDENTIFIERS: WURADC55811404, PE62702F (U)

The study identified factors that have an adverse effect on software cost estimates, determined their impact on software cost estimates, discussed methods for controlling the effect of these factors, and ' veloped an overall methodology for estimating the costs of software development. In addition to a generalized model for estimating software development costs, separate models have been generated for estimating the development cost of command and control, scientific, utility, and business software. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A042 167 8/8 5/1 14/1

KCM-WRE/YTD SEATTLE WASH

Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 2. Green River Basin. (U)

DEC 74 381P
CONTRACT: DACW67-73-C-0022

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
SUPPLEMENTARY NOTE: See also Part 2, Appendix C, AD-A042 168. Original contains color plates: All DDC reproductions will be in black and white.
DESCRIPTORS: *Drainage, *Basins(Geographic), *Urban planning, *Cost analysis, Runoff, Flood control, Maintenance, Investment expenditures, Rivers, Puget Sound, Washington(State) (U)

The Urban Runoff and Basin Drainage Report presents a comprehensive plan for meeting the existing and long range urban drainage needs within the Green River Basin. The study recommendations address drainage facilities, capital cost, methods of financing and institutional arrangements for effective drainage management. The recommended plans are conceptual and are intended for use by local governments as a guide in the future planning of drainage systems. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A042 166 8/8 5/1 14/1

KCM-WRE/YTD SEATTLE WASH

Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 1. Cedar River Basin. (U)

DEC 74 530P
CONTRACT: DACW67-73-C-0022

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
SUPPLEMENTARY NOTE: See also Part 2, Appendix A, Volume 2, AD-A042 167. Original contains color plates: All DDC reproductions will be in black and white.
DESCRIPTORS: *Drainage, *Basins(Geographic), *Urban planning, *Cost analysis, Runoff, Flood control, Maintenance, Investment expenditures, Rivers, Puget Sound, Washington(State) (U)

The Urban Runoff and Basin Drainage Report presents a comprehensive plan for meeting the existing and long range urban drainage needs within the Cedar River Basin. The study recommendations address drainage facilities, capital cost, methods of financing and institutional arrangements for effective drainage management. The recommended plans are conceptual and are intended for use by local governments as a guide in the future planning of drainage systems. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A042 134 1/3 14/1

BOEING VERTOL CO PHILADELPHIA PA

Product Improvement Program Evaluation. (U)

DESCRIPTIVE NOTE: Final rept. 17 May 76-17 Feb 77,
JUN 77 117P Blewitt,Stephen J. ;
REPT. NO. D210-11146-2
CONTRACT: DAAJ02-76-C-0020
PROJ: 1F262209AH76
TASK: '00
MONITOR: USAAMRDL TR-77-17

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft, *Modification, *Cost effectiveness, *Operational effectiveness, Methodology, Aircraft maintenance, Reliabi'.ty, Computer programs. (U)
IDENTIFIERS: WU146EK, ASH76, PE62209A (U)

This report presents the results of a study to develop an analysis technique for evaluating the cost and operational effectiveness of potential aircraft modifications that affect reliability and maintainability. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A041 937 8/6 13/2 14/1

ARMY ENGINEER DISTRICT OMAHA NEBR

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex K. Regional Water Supply. Appendix. (U)

DESCRIPTIVE NOTE: Final rept.
JUN 75 444P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Metropolitan Region of Omaha, Nebraska-Council Bluffs, Iowa, Review Report on the Missouri River and Tributaries. See also Volume 5, Annex L, AD-A041 955.
DESCRIPTORS: *Water resources, *Urban areas, *Water supplies, *Cost analysis, Municipalities, Planning, Operation, Legislation, Rivers, Nebraska, Iowa (U)
IDENTIFIERS: *Omaha(Nebraska), Council Bluffs(Iowa), Missouri River (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A041 935 8/6 13/2 14/1

ARMY ENGINEER DISTRICT OMAHA NEBR

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex H. Regional Wastewater Management. (U)

JUN 75 246P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 5, Annex J. A041 936. Original contains color plates: All DDC reproductions will be in black and white. Report on Metropolitan Region of Omaha, Nebraska-Council Bluffs, Iowa. Review Report on the Missouri River and Tributaries.
DESCRIPTORS: *Water resources, *Urban areas, *Waste water, *Waste management, *Cost analysis, Facilities, Land use, Sewage treatment, Runoff, Water treatment, Municipalities, Wastes(Industrial), Rivers, Nebraska, Iow (U)
IDENTIFIERS: *Omaha(Nebraska), Council Bluffs(Iowa), Missouri River (U)

The objective of the wastewater management study is to develop wastewater systems for the area which will satisfy best the various needs in the Omaha-Council Bluffs region. The process of developing alternative plans for water resource management must consider many factors. (U)

AD-A041 935 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A041 933 8/6 5/1 14/1

ARMY ENGINEER DISTRICT OMAHA NEBR

Water and Related Land Resources. Management Study. Volume V. Supporting Technical Reports Appendix. Annex F. Missouri Riverfront Corridor Land Use Plan and Program. (U)

JUN 75 125P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Metropolitan Region of Omaha, Nebraska-Council Bluffs, Iowa. Review Report on the Missouri River and Tributaries. See also Volume 5, Annex G, AD-A041 934. Original contains color plates: All DDC reproductions will be in black and white.
DESCRIPTORS: *Water resources, *Urban areas, *Land use, *Urban planning, *Cost analysis, Economic analysis, Sociology, Recreation, Housing(Dwellings), Commerce, Transportation, Rivers, Nebraska, Iowa (U)
IDENTIFIERS: *Omaha(Nebraska), Council Bluffs(Iowa), Missouri River (U)

This Land Use Plan and Program performs two functions: (1) describes the land uses which exist or have been planned for the 60 mile Missouri River corridor from Harrison County, Iowa to Cass County, Nebraska and; (2) it describes the capital improvements program and priorities; the tax benefits derived from public and private investments; a general evaluation of environmental, social and economic impacts; the possible application of the joint Funding Simplification Act of 1974; and the cooperative administration and program management of the projects which this composite development plan recommends. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A041 860 21/4 14/1

BECHTEL CORP SAN FRANCISCO CALIF

Coal Gasification Study. (U)

DESCRIPTIVE NOTE: Final rept.
APR 77 111P
CONTRACT: N68305-76-C-0009
PROJ: F57571
TASK: ZF57571001
MONITOR: CEL CR-77.013

UNCLASSIFIED REPORT

DESCRIPTORS: *Coal, *Coal gas, *Cost analysis, Naval shore facilities, Pollution abatement, Emission control, Costs, Economics, Fuels, Fuel oil, Comparison (U)
IDENTIFIERS: Coal gasification, GASPLANT computer program, PE62765N (U)

The general problem of providing fuel gas for Navy base facilities is studied. The intent is: first, to provide designs of a coal gasification plant producing 6x 10 to the 9th power Btu/day reactor output, based on two types of reactors; second, to conduct parametric studies leading to means for the costing of similar plants operating on different feedstocks; and third, to provide a method for estimating the change in boiler rating which must follow the substitution of fuel gas for either oil or coal firing. The performance and economics given are based on conceptual design methods. The economic results allow comparison of fuel-gas and fuel-oil costs on the basis of the Navy's method of analyzing costs using 'Economic Analysis Handbook,' NAVFAC P-442, 1975. The costs are the sum of all future outlays discounted to the present but allowing escalation at different rates for utilities and feedstock over a 25-year production period. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A041 798 9/2 14/1

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Interactive Computer Graphics: A Responsive Planning and Control Tool for DoD Program Management. (U)

DESCRIPTIVE NOTE: Research rept.,
JAN 77 56P Callahan,Joseph E. ;
Roberson,Carlton F. ;Perino,George H. , Jr;
REPT. NO. DSMC-RR-77.1

UNCLASSIFIED REPORT

DESCRIPTORS: *Interactive graphics, *Management planning and control, *Executive routines, *Cost analysis, Networks, Computer programs, Pert, Cathode ray tube screens, Display systems, Computer applications, Department of defense, State of the art, Feasibility studies (U)
IDENTIFIERS: *Program management (U)

This report summarizes the methodology, conduct and findings of the Defense Systems Management College (DSMC) research study of Interactive Computer Graphics (ICG) as a tool for program management planning and control. The study was conducted in four phases to meet four objectives: to determine the feasibility of representing and interrogating a program/project network on a graphics console; to determine the feasibility of developing an Interactive Computer Graphics Networking System (ICGNS) software prototype for program management planning and control; to examine the affordability of implementing an ICGNS in the PMO; and to assess the state-of-the-art in industry and DOD regarding existing and/or proposed ICG managerial applications. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A041 571 5/3 15/1

WEST VIRGINIA UNIV MORGANTOWN BUREAU OF BUSINESS RESEARCH

Guidelines for Attracting Private Capital to Corps of Engineers Projects. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 77 226P Droese,G. Richard ;Witt, Tom S. ;Rovelstad,James M. ;
CONTRACT: DACW31-75-C-0077
MONITOR: IWR CR-77-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Business, *Cost effectiveness, *Management, Finance, Problem areas, Army Corps of Engineers, Recreation, Cost analysis, Profits, Regression analysis, Computer applications (U)

This report reflects a study of concessionary operations at several Corps lakes located across the United States. The essential problem was to discern the policy and procedural means by which additional private capital could be attracted to meet the needs of nearly 400 million visitors who use recreation facilities at Corps projects. The researchers found that Corps concessionaires are small businesses and suffer the problems of all small business, particularly with respect to management inexperience. They found no single factor which influences profitability. The report conclusions dispute many of the commonly held assumptions about the factors critical to profitability. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A041 526 14/1 5/3

DECISIONS AND DESIGNS INC MCLEAN VA

The Art of Cost-Benefit Analysis. (U)

DESCRIPTIVE NOTE: Technical rept.,
FEB 77 59P Fischhoff,Baruch ;
CONTRACT: N00014-76-C-0074, ARPA Order-3052

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Decision Research Corp., Eugene Ore., Rept. no. DR-76-10 and Perceptronics, Inc., Woodland Hills, Calif., Rept. no. PTR-1042-77-2.
DESCRIPTORS: *Cost benefits, *Cost analysis, Decision making, Acceptability, Value engineering, Trees, Judgement(Psychology), Probability, Toxic hazards, Nuclear energy, Earthquakes (U)

Proposals for large-scale government and private projects are increasingly coming under the scrutiny of the cost-benefit analysis, decision analysis, risk assessment and related approaches. This paper presents a critical overview of such analyses. It discusses (1) their rationale; (2) their acceptability as guides to decision making; (3) the problems such analyses encounter; (4) how they may be misused; and (5) what steps are needed to increase their contribution to society. The discussion is illustrated with a variety of examples drawn, in particular, from the evaluation of new technologies. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A041 508 14/1 5/1 19/3

LOGISTICS MANAGEMENT INST WASHINGTON D C

Combat Vehicle System Operating and Support Costs: Guidelines for Analysis. (U)

JUN 77 96P Fiorello,Marco R. ;Jones, Lester G. , Jr;
REPT. NO LMI-75-1/3
CONTRACT: SD-321

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Life cycle costs, *Combat vehicles, *Military procurement, Cost analysis, Reports, Standardization, Costs, Logistics support, Comparison, Logistics planning, Defense planning, Weapon systems, Acquisition, Management planning and control, Decision making (U)

The Department of Defense has placed new emphasis on examining the projected operating and support (O/S) costs of planned weapons and finding ways to reduce those costs. O/S cost analyses are now a major part of the cost review conducted at each weapon procurement decision meeting by the Defense Systems Acquisition Review Council (DSARC) and the DSARC's principal advisor on new system costs -- the Cost Analysis Improvement Group (CAIG). This report recommends guidelines for preparing and presenting estimates of the support investment (SI) and O/S costs of combat vehicle systems to DSARC. It provides a framework for objective comparison of SI and O/S costs of program, design, or support alternatives, using consistent methodologies and terminology. A general methodology for SI and O/S cost-estimating is described, a standard cost element structure is defined, and specific requirements for presentation of SI and O/S cost estimates to DSARC are proposed. Standards for the presentation and documentation of those cost estimates are also recommended. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A041 497 11/4 14/1 9/2

NORTHROP CORP HAWTHORNE CALIF AIRCRAFT DIV

Advanced Composite Cost Estimating Manual. Volume II. (U)

DESCRIPTIVE NOTE: Final rept. 1 Apr 75-31 Mar 76.
AUG 76 54P LeBlanc,Donald J. ; Lorenzana,J. ;Kokawa,A. ;Bettner,T. ;Timson, F. ;
CONTRACT: F33615-75-C-3103
PROJ: 1207
MONITOR: AFFDL TR-76-87-Vol-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Composite materials, *Cost estimates, *Computer applications, Computer programs, Punched cards, Airframes, Output, Input, Equations, Parametric analysis, User needs, Methodology, Manuals, Programming manuals (U)
IDENTIFIERS: Cost projections, *UAFFDL1207, PE62201F (U)

IAC ACCESSION NUMBER: MCIC-100482
IAC DOCUMENT TYPE: MCIC -HARD COPY--
Contents: Input Forms: Keypunching Data Cards; and Estimating Equations. (U)

IAC SUBJECT TERMS: M--(U)COSTS, MANUALS, FABRICATION, COMPUTER PROGRAMMING, HONEYCOMB, FINISHING, FIBER REINFORCED COMPOSITES.;

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A041 496 11/4 14/1 9/2

NORTHROP CORP HAWTHORNE CALIF AIRCRAFT DIV

Advanced Composite Cost Estimating Manual. Volume II. Appendix. (U)

DESCRIPTIVE NOTE: FINAL REPT. 1 Apr 75-31 Mar 76.
AUG 76 156P LeBlanc,Donald J. ; Lorenzana,J. ;Kokawa,A. ;Bettner,T. ;Timson, F. ;
CONTRACT: F33615-75-C-3103
PROJ: 1207
MONITOR: AFFDL TR-76-87-Vol-2-App

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
SUPPLEMENTARY NOTE: See also Volume 1. AD-A041 495.
DESCRIPTORS: *Composite materials, *Cost estimates, *Computer applications, Computer program documentation, Computer programs, Programming manuals, Airframes, Fuselages, Parametric analysis, Skin(Structural), Programming languages, Subroutines, Manuals, Methodology (U)
IDENTIFIERS: MUAFFDL1207, PE62201F (U)

Contents: Computer Program Listing; Permanent Input Data Sets; Job Control Language and Sample Estimates. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A041 495 11/4 14/1 9/2

NORTHROP CORP HAWTHORNE CALIF AIRCRAFT DIV

Advanced Composite Cost Estimating Manual. Volume I. (U)

DESCRIPTIVE NOTE: Final rept. 1 Apr 75-31 Mar 76.
AUG 76 88P LeBlanc,Donald J. ; Lorenzana,J. ;Kokawa,A. ;Bettner,T. ;Timson, F. ;
CONTRACT: F33615-75-C-3103
PROJ: 1207
MONITOR: AFFDL TR-76-87-Vol-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A041 497.
DESCRIPTORS: *Composite materials, *Cost estimates, *Computer applications, Airframes, Manuals, Punched cards, Methodology, Parametric analysis, Standards, Labor, Honeycomb cores, Data bases (U)
IDENTIFIERS: MUAFFDL1207, PE62201F (U)

IAC ACCESSION NUMBER: MCIC-100481
IAC DOCUMENT TYPE: MCIC -HARD COPY--
This program concentrated on the development of a computerized system that estimates the recurring costs associated with the fabrication of advanced composite detail parts and components. The system employs Industrial Engineering Standard equations developed in the program to calculate standard hours for the detail composite fabrication operations of layup, core preparation, part consolidation and finishing. With these standards as base, recurring costs are derived through the application of variance factors, improvement curve slopes and labor rates. (Author) (U)

IAC SUBJECT TERMS: M--(U)COSTS, MANUALS, COMPUTER PROGRAMMING, FABRICATION, FIBER REINFORCEED COMPOSITES.:

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A041 467 14/1 5/1

ARMY WAR COLL CARLISLE BARRACKS PA

Implementation of Risk Assessment in the Total Risk Assessing Cost Estimate (Trace). (U)

DESCRIPTIVE NOTE: Study project rept.,
MAY 77 83P Venzke,Gene A. :

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *Cost estimates. *Risk analysis. *Systems management. Probability distribution functions, Research management, Cost models (U)
IDENTIFIERS: TRACE(Total risk assessment cost estimate). Total risk assessment cost estimate (U)

The concept of the Total Risk Assessing Cost Estimate (TRACE) was articulated by the ASA (R and D) on 12 July 1974. It is a means of explicitly accommodating the unforseen and unidentifiable costs which characterize research and development projects. The TRACE is required to possess the property that it is an estimate of the 50th percentile of the project cost probability distribution. Unfortunately, early attempts to implement the TRACE met with limited success. A formalized study was undertaken to develop adequate techniques and two candidate methodologies emerged. One of the approaches, the TRACE Network Model, is extremely promising. The second technique, TRACE Risk Tabulation, can be improved upon by a modification involving computer generation of the imbedded probability distribution. There remain some problems in 'educating' users of the value of the TRACE, and the TRACE concept suffers from some inherent shortcomings. It is recommended that the new techniques for developing the TRACE be implemented, along with some ancillary actions to support the implementation and enhance the usefulness of the TRACE. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A041 435 1/5 15/5

AEROSPACE SYSTEMS INC BURLINGTON MASS

Report on Airport Capacity: Large Hub Airports in the United States. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 77 800P Gentry,Daniel E. ;Howell, Jack D. ;Taneja,Nawal K. :
MONITOR: FAA-AVP 77-26

UNCLASSIFIED REPORT

DESCRIPTORS: *Airports. *Terminal flight facilities. *Air traffic. Capacity(Quantity). Urban areas. United States. Centralized. Requirements. Cost estimates. Statistical data. Ground support equipment. Efficiency Ground traffic. Hubs. Access. Civil aviation. Air transportation. Data acquisition (U)

This report describes an airport capacity analysis recently completed for the large hub airports of the United States. A total of 104 airports, including thirty major air carrier airports, were evaluated. Information was collected on existing and planned airport capacities and facilities for the airport airside, terminal, and landside components. Data on ticket counters, curb frontages, baggage claim devices, security checkpoints, parking, gates, runways, and many other items were obtained. This report describes the study motivation, data sought, survey methodology, and data sources. Preliminary findings of the study and outlines for future applications for the data collected are also discussed. Actual data obtained from the airports are included within the report. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A041 426 15/5 14/1 9/2

AIR FORCE LOGISTICS COMMAND WRIGHT-PATTERSON AFB OHIO DIRECTORATE OF MANAGEMENT SCIENCES

An Operational Version of the Depot Purchased Equipment Maintenance Allocation Model (DPEM MODEL). (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 77 163P Hillis,H. David ;Milborrow, Graham C. ;Reed,Maurice L. ;
REPT. NO. Working Paper-90
MONITOR: AFLC 77-1

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *Logistics planning, *Cost models, *Maintenance equipment, *Maintenance management, Cost analysis, Computer programs, Repair, Allocations, Air Force budgets (U)
IDENTIFIERS: Workloads, Depot purchased equipment maintenance (U)

The purpose of this study is to provide a narrative description of a cost allocation model for Depot Purchased Equipment Maintenance. The model is configured for the Honeywell 635 Computer supporting remote terminals and batch remote facilities via a Honeywell 115 operating in an open shop environment. Included are the computer programs and samples of the output products. Although this report is peculiar to the Air Force Logistics Command's Directorate of Materiel Requirements at WPAFB it is adaptable for other cost allocation areas and can be done rather easily. (Author) (U)

AD-A041 426

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A041 331 15/5 14/1 5/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Consolidation of RPMA at Fayetteville, NC. Volume IV. General Procedures for Conducting RPMA Consolidation Studies. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 77 169P Brown,David M. ;Nay,Joyce L. ;Kirby,Jeffrey G. ;
REPT. NO. CERL-TR-C-73-Vol-4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1 AD-A033 754.
DESCRIPTORS: *Military facilities, *Maintenance management, *Cost analysis, Centralized, North Carolina, Joint military activities, Feasibility studies, Management information systems, Resource management, Decision making, Economic analysis, Methodology, Management planning and control, Logistics support, Maintenance equipment, Army, Air Force, Military planning, Manpower utilization, Maintenance, Cost effectiveness, Savings (U)
IDENTIFIERS: Real property, Fayetteville(North Carolina), Fort Bragg, Pope Air Force Base, Consolidation (U)

This report presents general procedures for conducting a feasibility analysis for consolidating real property maintenance activities (RPMA) at military installations. The procedures are based on the cost analysis conducted by the U.S. Army Construction Engineering Research Laboratory as part of the RPMA consolidation study for Fort Bragg and Pope AFB, Fayetteville, NC. The report presents the initial planning required and the concepts necessary to compare the current method of operation of the existing facilities engineering organizations with that of the proposed Army RPMA consolidated organization. The procedures are based on the assumption that the Army is the lead service for the consolidation and that Army policies will be used. Although based on Army and Air Force RPMA data, the procedures should be generally applicable to the Navy. (U)

AD-A041 331

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A041 308 15/5 14/1

DRC INVENTORY RESEARCH OFFICE PHILADELPHIA PA

Retail Stockage Policy under Budget Constraints. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 77 64P Kaplan,Alan J. ;
REPT. NO. IRO-241

UNCLASSIFIED REPORT

DESCRIPTORS: *Inventory analysis, *Cost effectiveness, Probability, Stochastic processes, Optimization, Budgets, Retail, Inventory control, Retention(General), Computer programs (U)

Retail level units are subject to budgetary constraints when they order support items. At the same time, the stockage policies under which they operate do not attempt to relate stockage quantities to funds available. This study found that cutting reorder points was substantially more cost/effective than cutting operating levels in that there is a smaller impact on fill rates for each dollar cut. Modifying stockage list retention criteria worked very well for one DSU unit, and very poorly for another, and therefore could not be recommended generally despite its potential. In doing the study a Budget/Performance Evaluator (B/PE) was programmed. This is a computer program which can project budgetary requirements and fill rates for any retail unit, using input data about each item managed and the stockage policies to be followed. The input data is the same data needed for day to day management of the items. The B/PE differs from comparable programs already available in that it was designed to be accurate over the short term (e.g. 3 to 6 months). (Author) (U)

AD-A041 308 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A041 115 13/2 5/3

CORPS OF ENGINEERS DETROIT MICH DETROIT DISTRICT

Southeastern Michigan Wastewater Management Survey Scope Study Design and Cost Appendix. (U)

DESCRIPTIVE NOTE: Final rept.
MAY 74 556P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DDC reproductions will be in black and white. Design and Cost Appendix to AD-A041 112. See also AD-A041 116.
DESCRIPTORS: *Waste management, *Waste water, *Cost analysis, Michigan, Sewage treatment, Technology, Municipalities, Industries, Engineering, Cost estimates, Tables(Data), Engineering drawings (U)

This report investigates technical design and cost considerations involved in the development of wastewater management alternatives for municipal, industrial, and stormwater discharges to the surface waters of Southeastern Michigan. Treatment technology choices, alternative system components, and the design and cost of total alternative systems are presented. Treatment technology choices are limited by strict design criteria which requires the highest water quality levels attainable by existing technology. The systems which have been developed for this purpose include Advanced Waste Treatment, Independent Physical-Chemical Treatment, and Land Treatment. Alternative system components were developed from three alternatives which were based on the total use of one of the three technology choices. Alternative components resulted when systems serving individual subareas were compared. The combination of subareas, each with a potentially different technological choice, resulted in the formation of multiple technology systems. The final design of multiple technology systems optimized on an engineering economic cost effective basis resulted in the formation of some of the alternatives. (U)

AD-A041 115 UNCLASSIFIED

AD-A040 742 13/13 5/1 14/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Military Construction Supervision and Administration Cost Forecasts. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 77 43P O'Connor,Michael J. ;
Thompson,Bruce ;
REPT. NO. CERL-TR-P-80

UNCLASSIFIED REPORT

DESCRIPTORS: *Construction, *Management planning and control, *Cost analysis, Mathematical prediction, Estimates, Regression analysis, Forecasting, Maintenance, Statistical analysis, Supervision, Administrative personnel, Rates, Variables, Curve fitting (U)

This report presents a statistical model for forecasting supervision and administration (S and A) costs to aid the Directorate of Military Construction, Office of the Chief of Engineers, in establishing yearly limits for Corps of Engineers Division/District S and A rates. Data for 12 military construction Divisions/Districts from fiscal year 1963 (FY63) through FY76 were analyzed. A statistically significant model for 10 Districts was developed and verified using a retrospective test. S and A costs/rates for FY77 and FY78 were predicted as a function of the estimated work placement. (Author) (U)

AD-A040 447 14/1 5/1 15/7

LOGISTICS MANAGEMENT INST WASHINGTON D C

Ship operating and Support Costs: Guidelines for Analysis. (U)

MAY 77 89P Fiorello,Marco R. ;Salzer, Robert S. ;Wilk,Joseph R. ;
REPT. NO. LMI-75-1/2
CONTRACT: SD-321

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval vessels, *Life cycle costs, Cost analysis, Acquisition, Ships, Naval procurement, Naval planning, Weapon systems, Planning programming budgeting (U)

The Military Departments and defense contractors have for some time been actively concerned about rising life cycle costs (LCC) of Defense weapon systems. Over the past two years, the Department of Defense (DoD) has placed new emphasis on examining the projected operating and support (O and S) costs of planned weapons and finding ways to reduce those costs. O and S cost analyses are now a major part of the cost review conducted at each weapon procurement decision meeting by the Defense Systems Acquisition Review Council (DSARC) and the DSARC's principal advisor on new system costs--the Cost Analysis Improvement Group (CAIG). This report recommends guidelines for preparing estimates of the support investment (SI) and O and S costs of ship acquisition programs and presenting them to the DSARC. It provides a framework for objective comparison of SI and O and S costs of program, design, or support alternatives, using consistent methodologies and terminology. A general methodology for SI and O and S cost estimating is described, a standard cost element structure for ships is defined, and specific requirements for presentation of SI and O and S cost estimates to the DSARC are proposed. Standards for the presentation and documentation of these cost estimates are also recommended. These guidelines are intended to achieve consistent and effective preparation and documentation of SI and O and S cost estimates for major weapon systems. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A040 353 1/3 5/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Sensitivity of Army Helicopter Operating and Support Costs to Changes in Design and Logistic Parameters. (U)

MAY 77 56P Forster,John D. ;
REPT. NO. LMI-75-1/4
CONTRACT: SD-321

UNCLASSIFIED REPORT

DESCRIPTORS: *Helicopters, *Cost analysis, Reduction, Sensitivity, Cost estimates, Reliability, Maintainability, Maintenance personnel, Repair, Spare parts, Replenishment, Army procurement, Logistics management, Data bases, Resources, Allocations, Pilots, Flight crews, Manpower (U)
IDENTIFIERS: UTTAS, UH-1H aircraft, H-1 aircraft, AAH aircraft, AH-1S aircraft (U)

This study assesses Army helicopter O and S costs and Support Investment (SI) costs in order to assure that the degree of hardware design and logistic parameter sensitivity included in cost estimates accurately reflects actual expenditure sensitivities. Army O and S cost data sources, methodology, and approaches are examined, and selected cost improvements isolated and evaluated. Strengths of the current costing structure are noted so that they can be carried forward and improved upon to assure accurate representation of new systems to the DSARC. O and S data sources reviewed include reliability, maintainability, and field reported cost data. The present methodology and approaches for both Baseline (Program Manager's) Cost Estimates (BCE) and Independent Parametric Cost Estimates (IPCE) are assessed. The dominant O and S costs are found to be Manpower, Replenishment Spares, and Initial Spares. For Manpower and Initial Spares, simplified models are discussed which give OASD visibility into the critical sensitivities of Army helicopter O and S costs. Of the parameters examined for the selected helicopters, (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A040 209 5/3

NAVAL WEAPONS CENTER CHINA LAKE CALIF

Fuel Cost Escalation Study. (U)

DESCRIPTIVE NOTE: Summary rept. Jan-Oct 76.
APR 77 32P Kappelman,Ellis E. ;Lee. Stephen M. ;Klever,Ruth F. ;Cruise,D. R. ;
REPT. NO. NWC-TP-5958
MONITOR: GIDEP,GIDEP E076-0434.347.00.00.00-X7-188

UNCLASSIFIED REPORT

DESCRIPTORS: *Energy consumption, *Cost analysis, Coal, Natural gas, Petroleum industry, Electricity, Inflation(Economics), Naval planning, Fuels, Energy management, Economic analysis (U)

A fuel and energy cost escalation study was conducted to provide a projection of the costs of fuel oil, natural gas, coal and electricity to the year 2020. Upper and lower limits on probable prices are provided as well as most probable prices. These price projections were made based on examination of the nation's energy use, growth, resources, and price structure. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A040 119 14/1 9/2 5/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Computer-Aided Final Design Cost Estimating System Overview. (U)

DESCRIPTIVE NOTE: Interim rept..
MAY 77 12P O'Conner,Michael J. ; Botero,S. A. ;
REPT. NO. CERL-IR-P-81
PROJ: 4A762790AT41
TASK: 01

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Computer aided design, Construction, Buildings, Maintenance (U)
IDENTIFIERS: *Cost engineering, AST41, PE62790A, WU005 (U)

This report presents an overview of a proposed computer-aided final design cost estimating system that will help cost estimators prepare final design construction cost estimates. Use of the system and the cost estimating concepts on which the system is based are discussed. Data development and maintenance strategies are proposed. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A040 060 17/7 5/3

FEDERAL AVIATION ADMINISTRATION WASHINGTON D C SYSTEMS RESEARCH AND DEVELOPMENT SERVICE

Central Flow Control Automation Program Cost-Benefit Analysis. (U)

DESCRIPTIVE NOTE: Final rept..
SEP 76 54P Sboglio,Carlo J. ;Hannan, Thomas L. ;
REPT. NO. FAA/RD-77/53

UNCLASSIFIED REPORT

DESCRIPTORS: *Air traffic control systems, *Cost analysis, Automation, Cost benefits, Air traffic, Energy consumption, Air pollution, Airports, Aircraft noise, Life cycle costs (U)

This report contains an analysis of the benefits and costs associated with the Central Flow Control Automation Program. It presents the projected benefits and costs of both the current system and proposed system in terms of present-value dollars. Resultant benefit and cost differentials are discussed in terms of net present value and benefit-to-cost ratio. The sensitivity of these measures to major program uncertainty is described. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A039 922 5/4

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Foreign Military Sales (FMS): Costs, Benefits, and a New Approach. (U)

DESCRIPTIVE NOTE: Master's thesis,
MAR 77 131P Parker,Jimmie Roscoe ;
Hawxhurst,Jack Michael ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Military assistance, *Cost benefits, Cost analysis, Weapons, Exports, National security, Planning programming budgeting, International relations, Foreign policy, United States Government (U)

An evaluation of the costs and benefits of the Foreign Military Sales (FMS) program is presented. Focusing on economic, military, and political factors, a comparative analysis reveals that the FMS program is beneficial to the United States at this time. However, if program controls are not improved the FMS program could become detrimental to national security. The recommended approach to improved program controls is more involvement of the State Department in DOD's Security Assistance Planning, Progamming, and Budgeting System (PPBS) and better coordination and analysis of data already available in the system. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A039 813 15/5 19/6

ARMY ARMAMENT MATERIEL READINESS COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

Cost/Schedule Uncertainty Analysis for VADS Short-Range (RAM) Product Improvement Program. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 77 51P Trie*,Norman H. :
REPT. NO. DRSAR/SA/N-55

UNCLASSIFIED REPORT

DESCRIPTORS: *Air defense, *Guns, *Quality assurance, *Cost analysis, *Self propelled guns, Towed bodies, Airborne, Airmobile operations, Reliability, Maintainability, Modification kits, Manuals, Simulation, Scheduling, Uncertainty (U)
IDENTIFIERS: Vulcan Air Defense System, Availability, M-163 guns, M-167 guns (U)

A cost/schedule uncertainty analysis was conducted on the short range (RAM) product improvement program (PIP) for the Vulcan Air Defense System (VADS). The short range PIP addresses the product improvements to the self-propelled (M163) and towed (M167) VADS, changes to VADS support and test equipment, and documentation of those changes in the appropriate technical manuals. The Venture Evaluation and Review Technique (VERT), a network analyzer, was used to simulate the VADS PIP from July 1, 1976 to the completed application o· all product improvements and the fielding of the new manuals and test equipment. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A039 563 5/1 12/2

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

Parametric Cost Estimating. (U)

DESCRIPTIVE NOTE: Project rept.,
MAY 74 46P Devens,Robert J. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Military procurement, *Cost estimates, Materiel, Acquisition, Weapon systems, Management planning and control, Parametric analysis (U)

This paper is a study in parametric cost estimating or what is commonly referred to as cost estimating relationships (CERs) used in the Department of Defense. It covers the background, data collection, basic methodology and the uncertainty involved in the use of parametric type estimates. The information within has been extracted from various sources and includes the current method and means for obtaining data in addition to the uncertainty involved in parametric cost estimates. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A039 474 5/1 15/5 9/2

RCA GOVERNMENT SYSTEMS DIV BURLINGTON MASS AUTOMATED SYSTEMS

LOCAM 5. Volume II. Programmer/Users Manual. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 77 272P Seaberg,Ernest C. ;Howe, Russell E. ;
REPT. NO. CR-76-586-019-Vol-2
CONTRACT: DAAH01-76-C-1071
MONITOR: DRDMI-D 77-2-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A073 580.
DESCRIPTORS: *Maintenance management, *Cost analysis, *Logistics support, Computer programs, Programming manuals, Systems analysis, User needs, Deployment, Manpower, Life cycle costs, Policies, Decision making (U)
IDENTIFIERS: Locam 5 computer program, User manuals, Availability (U)

Logistics Cost Analysis Model 5 is an upgraded model of maintenance policies utilized by the US Army Missile Command and the US Army Weapons Command. Model progression included Missile Command, Weapons Command cost analysis of maintenance policies, and Logistics Cost Analysis Models 2, 3, and 4. It is an analytical computer program capable of representing field logistic support functions and flow. It computes life cycle costs and operational availability for alternate system support concepts. Output includes provisioning requirements and operational elements both by numbers and cost. Variable dimensions are limited only by the computer. Parameters include extensive specification of factors for: deployment, equipment, supply, maintenance, and test equipment. Sensitivity to all input factors is possible. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A039 369 14/1 5/1 1/3

LOGISTICS MANAGEMENT INST WASHINGTON D C

Aircraft System Operating and Support Costs: Guidelines for Analysis. (U)

MAR 77 94P Betaque,Norman E. , Jr.: Fiorello,Marco R. :
REPT. NO. LMI-75-1
CONTRACT: SD-321

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Military aircraft, *Cost estimates, *Cost analysis, Standards, Reports, Fixed wing aircraft, Rotary wing aircraft, Acquisition, Costs, Weapon systems, Military procurement, Logistics support, Operation, Management planning and control, Decision making (U)

As weapon system life cycle costs have risen, DoD has placed new emphasis on examining the operating and support (O/S) cost impacts of planned new weapons and finding ways to reduce these costs. O/S cost analyses are now a major part of the cost review conducted at each weapon procurement decision meeting by the Defense Systems Acquisition and Review Committee (DSARC) and the Cost Analysis Improvement Group. This report recommends guidelines for preparing and presenting estimates of the support investment (SI) and O/S costs of fixed and rotary wing aircraft systems to DSARC. It provides a framework for objective comparison of SI and O/S costs of program, design, or support alternatives, using consistent methodologies and terminology. It also focuses on assessment of efforts to control downstream costs of weapon systems in the acquisition phase. General methodology for SI and O/S cost-estimating is described, a standard cost element structure is defined, and specific requirements for presenting SI and O S cost estimates to DSARC are proposed. Standards for the presentation and documentation of those cost estimates are recommended. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A039 089 11/9 13/4

AIR FORCE PACKAGING EVALUATION AGENCY WRIGHT-PATTERSON AFB OHIO

Evaluation of Polypropylene and Polyethylene Cushion Wrap Materials. (U)

APR 77 16P Brown,Richard V. :
REPT. NO PIPT-77-17

UNCLASSIFIED REPORT

DESCRIPTORS: *Polyethylene plastics, *Polypropylene, *Packaging, *Cushioning, *Cost effectiveness, Mathematical models, Test methods, Acceleration, Stress testing, Static tests, Creep, Graphs (U)

The objective of this study was to evaluate the static and dynamic cushioning properties of polyethylene wrap material in relation to polypropylene wrap material and to determine the relative cost effectiveness of the two materials in package designs. Peak acceleration (Gs) versus Static Stress curves and 'Creep' characteristics were developed for both materials. Using these data and a mathematical model, a cost analysis was accomplished. The results showed that no cost savings could be realized by substituting polyethylene for polypropylene. However, polyethylene should be considered as an alternative to polypropylene in new pack designs when item fragility and static bearing stress considerations result in equivalent material costs. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A039 062 1/3 21/5 14/1

RAND CORP SANTA MONICA CALIF

Life Cycle Analysis of Aircraft Turbine Engines: Executive Summary. (U)

DESCRIPTIVE NOTE: Interim rept.,
MAR 77 62P Nelson,J. R. ;
REPT. NO. R-2103/1-AF
CONTRACT: F49620-77-C-0023

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Executive summary of Rept. no. R-2103-AF.
DESCRIPTORS: *Gas turbines, *Turbojet engines, *Turbofan engines, *Life cycle costs, *Cost analysis, *Aircraft engines, Aircraft maintenance, Depots, Spare parts, Procurement, Maintenance, Models, Commercial aircraft, Military aircraft, Comparison (U)

Presents a methodology for life-cycle analysis of aircraft turbine engines that weapon-system planners can use to estimate certain performance/schedule/cost tradeoffs early in the design and selection phase of acquiring this important subsystem. Prompted by the steadily escalating costs of engine acquistion and ownership, the study finds that engine life-cycle costs are much larger than and different from what had previously been realized. For example, depot costs alone will exceed procurement costs for a new engine with an operational lifespan of 15 years. Ownership-data availability being the most serious obstacle, the study recommends that the Air Force begin collecting and preserving disaggregated, homogeneous, longitudinal data at both depots and bases, associated with specific engine types. The findings also suggest numerous improvements in operational and maintenance procedures that the Air Force could adopt in the near term (the Air Force has already initiated studies in some of these areas). (Author) (U)

AD-A039 062 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A038 761 14/1 14/4

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Cost Optimizing System to Evaluate Reliability (COSTER). (U)

DESCRIPTIVE NOTE: Technical rept. Jan 75-Dec 76.
APR 77 48P Solomond,John P. ;Marseglia, Grace A. ;
REPT. NO. ECOM-4487

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Also available as condensed version in the Proceedings of the Reliability and Maintainability Paper (Annual) n1469 p385-390 1977.
DESCRIPTORS: *Cost models, *Failure(Electronics), *Reliability(Electronics), Cost analysis, Electronic equipment, Specifications, Maintainability, Trade off analyses, Optimizati (U)

Specific attention is currently being addressed to the overall cost of the reliability specification as early as the development stage in an equipment's life cycle. In order to assess the impact of changes in an equipment's reliability specification, it must be possible to predict and monitor the effects of such changes on an equipment's reliability testing and field support costs. This research report elaborates the respective cost and reliability improvements resulting from six major reliability program efforts prior to an equipment's field deployment. The six efforts are: (1) the design review; (2) the reliability prediction program; (3) the failure mode, effects, and criticality analysis (FMECA); (4) the parts program, in which MIL-STD and high reliability parts are selectively used in place of commercially available parts; (5) the reliability testing programs; and (6) the Burnin test. One hundred sixty exhaustive 'policies' are analyzed with respect to their cost and resultant reliability. Each policy is a specific combination of the reliability program tasks imposed. The total policy cost is the sum of the reliability program cost and the expected field support cost after the equipment is deployed. (U)

AD-A038 761 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A038 654 5/11 5/9 5/10 5/3

CONTROL ANALYSIS CORP PALO ALTO CALIF

Cost and Retention Impacts of the Navy's Conus Recreation Program. (U)

DESCRIPTIVE NOTE: Final rept. 1 Jan-31 Aug 75.
SEP 75 238P Laichanjani,Atam P. ; Humphreys,Thomas H. ;Morey,Richard C. ;Snyder ,David P. ;deAndrade,Anthony B. ;
CONTRACT: N00014-75-C-0628

UNCLASSIFIED REPORT

DESCRIPTORS: *Recreation, *Naval personnel, *Fringe benefits, *Retention(General), *Cost benefits, All volunteer, Morale, Recruiting, Naval training, Surveys, Naval shore facilities, United States, Retirement(Personnel), Taxes, Salaries, Sampling, Cost models, Questionnaires (U)

This study is an evaluation of the benefits and costs associated with the Navy's shore-based Recreation Program. The evaluation is achieved by determining the cost effectiveness of the Overall Recreation Program as well as that for the fourteen individual Recreation Categories. A significant by-product of the cost-effectiveness has been the estimation of income from and costs (operating as well as capital costs) of individual Recreation Categories. The results are based on extensive information gathered from over 11,000 active duty eligible users as well as the managers of the Recreation Program at 16 diverse Navy Installations in CONUS. The Recreation Program has been evaluated not only in terms of its benefits to the Navy individual and dependents but also with respect to its overall impact on the Navy in terms of maintaining retention rates. This evaluation has been accomplished utilizing econometric models that take into account established relationships between changes in income and changes in retention. Other key ingredients of these model are estimates of recruiting and training costs utilized in the retention cost calculations. In addition, optimization models for resource allocation across the Recreation Categories have been developed. (U)

AD-A038 654

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A038 539 1/3 5/3

AVIATION DATA SERVICES INC WICHITA KANS

United States General Aviation. (U)

DESCRIPTIVE NOTE: Final technical rept. 1959-1975.
JUL 76 92P
CONTRACT: DOT-FA76WA-3819
MONITOR: FAA-AVP 76-12

UNCLASSIFIED REPORT

DESCRIPTORS: *Civil aviation, *Cost analysis, Fuel consumption, Aircraft, Statistics, Tables(Data) (U)

This report presents data on general aviation cost of operations, aircraft value, fuel cost, plus fleet size and hours flown. This information is presented in historical time series and is tabulated by aircraft type and user category. The period 1959 through 1975 is covered by this report. (Author) (U)

AD-A038 539

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A038 477 14/1 12/2 5/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

OSCR System Applications Analysis. (U)

DEC 76 95P Domin,Joseph S. ;Webster, Craig A. ;
REPT. NO. LMI-76-15
CONTRACT: SD-321

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Management information systems, Life cycle costs, Maintenance management, Weapon systems, Logistics management, Air Force planning, Systems analysis (U)

The Operating and Support Cost Reporting System, a management information system developed by the U. S. Air Force, is analyzed to determine how well the cost information needs of specific decisions and analytical processes are satisfied by output from the OSCR system. The capabilities and limitations of the present OSCR system are identified and a plan for implementing a series of recommended improvements is presented. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A038 190 5/9 14/2

ILLINOIS UNIV AT URBANA-CHAMPAIGN SAVOY AVIATION RESEARCH LAB

Simulators for Training and Profit. (U)

DESCRIPTIVE NOTE: Technical rept.
JUL 76 8P Hopkins,Charles O. :
REPT. NO. ARL-76-10/AFOSR-76-5
CONTRACT: F44620-76-C-0009
PROJ: 2313
TASK: A4
MONITOR: AFOSR TR-77-0373

UNCLASSIFIED REPORT

DESCRIPTORS: *Flight simulators, *Cost effectiveness, Avionics, Flight training, Simulation, Military training, Skills, Reliability, Human factors engineering (U)
IDENTIFIERS: PE61102F, *UAFOSR2313a4 (U)

The use of simulators for training and profit is discussed in terms of the concept of cost effectiveness. Increased degree and fidelity of simulation require greater equipment complexity and cost. Data are presented that show a high negative correlation between cost and field reliability of avionics equipment. There is a paucity of research data on the relationships between simulator fidelity and transfer effectiveness. The results of the first and only recently completed experiment to investigate transfer of initial flight training as a function of simulator cockpit motion are summarized. A rational basis for simulator selection and use developed by Jacobs and Roscoe is presented. The need for research to establish relationships between transfer of training and physical characteristics such as degree and fidelity of simulation is seen as critical to the widespread future use of simulators for training and profit. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A037 920 13/2 14/1 10/2

RAND CORP SANTA MONICA CALIF

The Move Towards Marginal Cost Pricing in Electricity. (U)

JUN 76 21P Acton,Jan Paul :
REPT. NO. P-5673

UNCLASSIFIED REPORT

DESCRIPTORS: *Public utilities, *Electricity, *Cost analysis, *Electric power distribution, Energy conservation, Costs, Environments, Foreign technology, United States, History (U)
IDENTIFIERS: *Marginal cost pricing, Marginal costs, Embargos (U)

It comes as no surprise to observers and participants in the American electricity scene that a lot of things have changed recently. But what is emerging more slowly is the relationship between some of these recent changes and the need to reform the basic manner by which we set the price of electricity. The purpose of this paper is to try to draw together some of the principal factors behind the movement towards rate reform and to discuss some of the fact needed to judge whether the suggestions are useful for a particular utility. Three main areas are: First, what has changed in American electricity that causes us to reexamine the pricing. Second, Why is marginal cost pricing considered the most attractive alternative to present rate structures. Third, What do you need to know before deciding to implement marginal cost pricing in a particular utility. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A037 790 17/7 17/9 14/1

TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MASS

Airport Surface Traffic Control Tags Planning Alternatives and Cost/Benefit Analysis. (U)

DESCRIPTIVE NOTE: Final rept. Dec 75-Mar 76.
JAN 77 50P Rempfer,Paul S. :
REPT. NO. TSC-FAA-76-23
MONITOR: FAA-PO 77-9

UNCLASSIFIED REPORT

DESCRIPTORS: *Air traffic control systems, *Search radar, *Cost benefits, *Cost analysis, *Airport radar systems, Runways, Taxiways, Airports, Automatic, Display systems, Costs, Sensitivity (U)
IDENTIFIERS: TAGS(Tower Automated Ground Surveillance), Tower Automated Ground Surveillance (U)

The findings of a cost/benefit analysis of the deployment of a new airport ground surveillance system TAGS (Tower Automated Ground Surveillance) are presented. TAGS will provide a plan view display of aircraft on the airports taxiways and runways like ground surveillance radar (ASDE); but unlike ASDE, TAGS will perform in heavy precipitation and automatically acquire and display aircraft flight identity. The findings indicate that a TAGS deployment of between four and nine systems is cost/beneficial. The development plan, system costs, analysis approach and sensitivity analysis supporting the findings are provided. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A037 434 1/2 14/1

NOAH (J WATSON) ASSOCIATES INC ALEXANDRIA VA

Cost Benefit Analysis and the National Aviation System - A Guide. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 77 232P Noah,J. W. ;Groemping,R. A. ;Berterman,J. E. ;Greynolds,O. L. :
REPT. NO. FR-1191-FAA
CONTRACT: DOT-FA76WA-3769
MONITOR: FAA-AVP 77-15

UNCLASSIFIED REPORT

DESCRIPTORS: *Civil aviation, *Cost benefits, Policies, Life cycle costs, Cost estimates, Aviation safety, Federal law, Standards, Air traffic control systems, Economic models, Economic analysis, Regression analysis, Linear programming, Monte Carlo method, Computations, Methodology (U)

This manual contains a discussion of cost-benefit methodology as it applies to the national aviation system, an explanation of selected values for potential use in Federal Aviation Administration studies, and the principles, concepts, and techniques appropriate to estimating benefits and life-cycle cost. In addition, parameters useful for valuing changes in capacity, delay, and aviation safety are presented. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A037 408 5/1 5/3

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO SYSTEMS ANALYSIS OFFICE

Cost of Terminating Contracts Study (COTCOS-I). (U)

DESCRIPTIVE NOTE: Final rept.,
NOV 76 44P Sutterfield,J. S. :
REPT. NO. DRSAV-D-76-10
MONITOR: USAAVSCOM TR-76-44

UNCLASSIFIED REPORT

DESCRIPTORS: *Contract proposals, *Cost overruns, Army aircraft, Government(Foreign), Procurement, Curve fitting, Graphics, Systems approach (U)
IDENTIFIERS: Contract termination liabilities (U)

This study had as its object the development of a curve of termination liability for use on Army aircraft contracts. An equally likely or average curve was graphically developed from five sets of contract data. From this graphical curve and equation was developed. This equation provided an analytical curve that almost perfectly reproduced the original graphical curve. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A037 391 5/1 5/3 5/9

KETRON INC ARLINGTON VA

BuPers MPN Expenditure Estimating. (U)

DESCRIPTIVE NOTE: Final rept. 2 Jul 76-28 Feb 77,
FEB 77 163P Augusta,Joseph H. ;Bryan,
Judith A. ;Golding,James E. ;Hainline,Mark
A. ;Nickel,Ronald H. ;
REPT. NO. KFR-109-77
CONTRACT: N00014-76-C-1037

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *Naval budgets, *Cost estimates, *Naval personnel, Salaries, Cost overruns, Forecasting, Time series analysis, Computer programming, Subroutines, Computer applications, Flow charting (U)
IDENTIFIERS: Disbursement (U)

The Bureau of Naval Personnel has responsibility for controlling expenditure of the MPN funds and, in particular, for ensuring that this expenditure does not exceed the amounts annually authorized by the Congress. Forecasting the precise level and time of disbursements is a difficult task, because claims for payment arise at a great diversity of sites and reporting delays can vary considerably. To guard against the possibility of overspending, the Bureau of Naval Personnel has refrained from planning to spend the full sum allotted it by Congress, holding some monies back so that it can deal with unexpected obligations. It is clearly desirable that these reserve assets be kept to a minimum consonant with a desired level of protection against overexpenditure. The purpose of this study is to develop the analytical tools to estimate reliably the proper margin of safety that BuPers should maintain to guard against overspending. The analysis of financial data of the BA(1) and BA(2) accounts of the past three fiscal years show that BuPers has exerted close control in keeping a proper relationship between actual expenditures and planned obligations. However, further refinements and improvements in the methods and procedures are possible. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A037 384 5/4 5/3

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Foreign Military Sales. Construction of a Replacement Price (Some Considerations, Problems and Potential Solutions). (U)

DESCRIPTIVE NOTE: Technical rept.,
FEB 77 35P Gille,Warren H. , Jr;
REPT. NO. USAAVSCOM-TR-77-13

UNCLASSIFIED REPORT

DESCRIPTORS: *Military assistance, *Military forces(Foreign), *Cost estimates, Cost analysis, Spare parts, Replacement, Military procurement, Economic analysis, Learning curves, Inflation(Economics), Rates, Indexes (U)

Part one is a brief historical sketch of military assistance, 1947 to date, especially the transition from grant aid to foreign military sales. Part two discusses construction of a replacement price and the considerations involved in estimating today's replacement cost for items purchased in the past. Part three discusses considerations involved in computing what actual replacement cost would be, taking into account future inflation, number of items procured, spendout, time required for procurement, and other influential factors. The purpose of this report is to provide insight into the theory of Replacement Pricing. Specifically, to identify problems which might not be evident to some FMS related personnel and provide illustrative examples. Additional information, glossary, charts, and explanations are presented, in order to make the document of use to a broad cross section of the Federal community. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A037 079 1/5 20/11 14/1

MITRE CORP MCLEAN VA

Estimation of UG3RD Capacity Impacts. (U)

DESCRIPTIVE NOTE: Final rep...
JAN 77 109P Smith,Arthur P. ;
REPT. NO. MTR-7138
CONTRACT: DOT-FA70WA-2448
MONITOR: FAA-AVP 77-9

UNCLASSIFIED REPORT

DESCRIPTORS: *Runways, *Airports, *Impact tests, *Cost benefits, Air traffic control systems (U)
IDENTIFIERS: Runway capacity (U)

This study provides airport runway capacity estimates for the top 30 U.S. air carrier airports for the FAA's Upgraded Third Generation ATC System Cost Benefit Study. The capacity estimates were made at five year intervals for both IFR and VFR conditions for the baseline and the five alternative configurations defined for the cost benefit study. The results indicate that if the UG3RD Generation ATC system is fully implemented by 1990 and if wake vortex conditions are favorable then nearly a 40% increase in capacity could be realized at the top 30 air carrier airports under IFR conditions and an increase of 23% under VFR conditions. The greatest increase in IFR capacity (48%) accrues to those airports which use a dual-lane runway configuration as their predominant mode of operations in IFR conditions. This increase in capacity is expected to reduce terminal area delays. (Author) (U)

AD-A037 079 UNCLASSIFIED PAGE 2V1

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A036 830 8/6 13/2 5/1

CORPS OF ENGINEERS BALTIMORE MD BALTIMORE DISTRICT

Binghamton Wastewater Management Study. Design and Cost Appendix. (U)

JUN 76 683P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Impact Assessment and Evaluation Appendix, AD-A036 831.
DESCRIPTORS: *Waste water, *Waste management, *New York, *Cost analysis, Water pollution, Flood control, Planning, Watersheds, Rivers, Forecasting, Finance (U)
IDENTIFIERS: *Binghamton(New York), Susquehanna River (U)

This appendix presents the documentation of the engineering analyses which formed the basis of the designs and costs of wastewater management systems. To a certain extent, the design and cost information was refined in an interative fashion similar to the refinement of the plans themselves. The Design and Cost Appendix presents the development and methodology of the engineering analyses as well as the detailed design and cost of the final plans. The Plan Formulation Appendix documents all significant events and decisions involved in the formulation, evaluation, and selection of wastewater management plans. Other supporting appendices, present no detailed infromation on particular elements of the Study include the following: Impact Assessment and Evaluation, Institutional Analysis, and Public Involvement. Also included is the Speciality Appendix which presents detailed analyses of investigations that either overlapped the other appendices or were of particular interest to participants in the Study. These investigations were: the Outlying Communities, river recreation, nonstructural measures, land application, non-point source pollution, and industrial wastewater management. A general profile of the Study Area is contained in the Background Information Appendix. (U)

AD-A036 830 UNCLASSIFIED Z0MO7

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A036 814 13/2

METCALF AND EDDY INC BOSTON MASS

Wastewater Engineering and Management Plan for Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA Study. Technical Data Volume 15. Recommended Plan and Implementation Program. (U)

OCT 75 144P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DDC reproductions will be in black and white. Includes envelope with map. See also report dated Mar 76, AD-A036 792.
DESCRIPTORS: *Sanitary engineering, *Cost analysis, *Sewage treatment, *Waste water, *Waste management, Water treatment, Water pollution abatement, Management planning and control, Public utilities, Facilities, Sewage disposal, Pumping, Piping systems, Overload, Criteria, Finance, Regulations, Massachusetts, Urban areas (U)
IDENTIFIERS: Boston Harbor (U)

This report covers the recommendations made as a result of the EMMA Study. While all items presented in this report are interrelated, early chapters of this report deal with specific items of the sewerage system while the later chapters deal with the costs of the program and the recommendations for financing and managing the system. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A036 405 17/2 13/2

GTE SYLVANIA INC NEEDHAM HEIGHTS MASS COMMUNICATIONS SYSTEMS DIV

ELF Communications SEAFARER Program. Site Survey, Michigan Region. Antenna Construction Cost Factors and Installation Plan. (U)

DESCRIPTIVE NOTE: Final rept.
JUL 76 73P
CONTRACT: N00039-75-C-0309

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with Henkels and McCoy, Inc., Southfield, Mich.
DESCRIPTORS: *Global communication systems, *Environmental impact statements, *Underwater communications, *Radio links, *Underground antennas, *Cost analysis, Costs, Michigan, Extremely low frequency, Environments, Installation, Construction, Base lines, Surfaces, Depth (U)
IDENTIFIERS: *Site survey, *SEAFARER Project, Elf communications (U)

A study of the methods and costs associated with the installation of the underground antenna cable portion of the SEAFARER Project is described. This study included a physical examination of the proposed installation site located in portions of the Upper Peninsula of Michigan. Final installation plans and costs will be determined when system design has been completed. The baseline data contained in the report will be extrapolated as required to support final costing. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A036 371 5/1 12/2

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Introduction to Multiple State Multiple Action Decision Theory and Its Relation to Mixing Structures. (U)

JAN 77 59P Engebos,Bernard Francis ;
REPT. NO. ECOM-5810
PROJ: DA-1-L-161102-B-53-A

UNCLASSIFIED REPORT

DESCRIPTORS: *Decision theory, *Life cycle costs, *Cost effectiveness, Game theory, Stochastic processes, Theorems (U)

A general mathematical framework is developed which addresses the problem of determining an optimal, or near optimal, course of action, when the outcome of a given course of action is known to be influenced by an evolving state of nature. In this context the advantage of knowledge of the natural state is balanced by the cost of obtaining this information. Such a structure, when considered as functioning over a given time interval, permits employment of life cycle cost versus possible gain. All the mathematical structures and related entities, and the underlying properties thereof, are developed in a manner that such tradeoff studies are possible. The theoretical development as presented is related to that of statistical game theory but with a broader set of objectives. Multiple aspects for the state of nature, and sets of permissible action are allowed, with these actions being capable of simultaneous performance. This leads to the introduction of multiple state multiple action decision theory and its basic framework, the 'mixing structure'. The concept of 'sensor mixes' is defined and related to the possibility of decreasing loss by the spying on the state of nature. The cost of obtaining this information is then balanced against the gain obtained by knowledge of the natural state. A resulting 'figure of merit' may be used to determine the desirability of each sensor mix. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A036 366 1/2 5/3

BATTELLE COLUMBUS LABS OHIO

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume IV. Data Base. (U)

DESCRIPTIVE NOTE: Final rept. 12 Jun 74-12 Aug 75.
AUG 75 144P Porter,R. F. ;Duffy,M. A. ;Cote,R. W. ;
CONTRACT: DOT-FA74WA-3485
MONITOR: FAA-AVP 75-13-Vol-4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-A036 365.
DESCRIPTORS: *Air transportation, *Cost analysis, Finance, Acquisition, Accounting, Flight crews, Salaries, Leasing, Taxes, Cost models, Systems engineering, Statistical data (U)
IDENTIFIERS: General aviation, *Business corporate flying, Corporate owned aircraft, Cost sensitivity analysis (U)

:Contents: Business/corporate category activity data, 1972: Cost data: Corporate owner characteristics. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A036 365 1/2 5/3

BATTELLE COLUMBUS LABS OHIO

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume III. Planning Guide. (U)

DESCRIPTIVE NOTE: Final rept. 12 Jun 74-12 Aug 75. AUG 75 63P Porter,R. F. ;Duffy,M. A. ;Cote,R. W. ;
CONTRACT: DOT-FA74WA-3485
MONITOR: FAA-AVP 75-13-Vol-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2. AD-A036 364 and Volume 5. AD-A036 366.
DESCRIPTORS: *Air transportation, *Cost analysis, Finance, Acquisition, Accounting, Flight crews, Salaries, Leasing, Taxes, Cost models, Systems engineering, Cost estimates (U)
IDENTIFIERS: General aviation, *Business corporate flying, Corporate owned aircraft, Cost sensitivity analysis (U)

;Contents: Discussion of limitations and instructions for use; Interpretation of cost sensitivity and cost impact relationships; Evaluation procedure; Cost sensitivity charts; Cost impact charts; Example of cost impact evaluation procedure. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A036 364 1/2 5/3

BATTELLE COLUMBUS LABS OHIO

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume II. Research Methodology. (U)

DESCRIPTIVE NOTE: Final rept. 12 Jun 74-12 Aug 75. AUG 75 123P Porter,R. F. ;Duffy,M. A. ;Cote,R. W. ;
CONTRACT: DOT-FA74WA-3485
MONITOR: FAA-AVP 75-13-Vol-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A036 363 and Volume 3. AD-A036 365.
DESCRIPTORS: *Air transportation, *Cost analysis, Finance, Acquisition, Accounting, Flight crews, Salaries, Leasing, Taxes, Cost models, Systems engineering, Statistical data (U)
IDENTIFIERS: General aviation, *Business corporate flying, Corporate owned aircraft, Cost sensitivity analysis (U)

;Contents: Development of cost sensitivity coefficients; Cost impact relationships; Correlation of aircraft and business characteristics. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A036 363 1/2 5/3

BATTELLE COLUMBUS LABS OHIO

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume I. Executive Summary. (U)

DESCRIPTIVE NOTE: Final rept. 12 Jun 74-12 Aug 75, AUG 75 42P Porter,R. F. ;Duffy,M. A. ;Cote,R. W. ;
CONTRACT: DOT-FA74WA-3485
MONITOR: FAA-AVP 75-13-Vol-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A036 364.
DESCRIPTORS: *Air transportation, *Cost analysis, Finance, Acquisition, Accounting, Flight crews, Salaries, Leasing, Taxes, Cost models, Systems engineering (U)
IDENTIFIERS: General aviation, *Business corporate flying, Corporate owned aircraft, Cost sensitivity analysis (U)

The report, in four volumes, presents the results of research intended to enhance the utility of the original General Aviation Cost Impact Study (DOT-FA74WA-3118) by (1) identifying subcategories of business/corporate operators with varying effective after-tax sensitivities, (2) redefining the empirical cost impact relationships for business/corporate flying by using an expanded data base, and (3) providing information to permit greater insight into the nature of the business fleet by examining the financial characteristics of corporate owners. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A036 327 5/3 12/1

COCKERHAM (JOHN M) AND ASSOCIATES INC HOPEWELL VA

US Army Total Risk Assessing Cost Estimate (TRACE) Guidelines. (U)

DESCRIPTIVE NOTE: Technical rept. DEC 76 94P
CONTRACT: DAAH01-76-C-1088
PROJ: 1W362303A214
MONITOR: RC 77-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Army budgets, *Risk analysis, Network flows, Scheduling, Uncertainty, Flow charting, Allocations, Cost overruns (U)
IDENTIFIERS: Trace analysis, *Total risk assessing cost estimates, AS214, PE62303A (U)

This report describes the background, logic, and purpose of the TRACE concept. Some basic methodologies for conducting TRACE analyses are described and illustrated. Procedures to be followed for obtaining risk capital are also described and illustrated. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A036 177 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Implementing Replacement Cost Accounting. (U)

DESCRIPTIVE NOTE: Master's thesis.
DEC 76 75P Clickener.John Ross :

UNCLASSIFIED REPORT

DESCRIPTORS: *Accounting, *Replacement, *Costs, *Inflation(Economics), Value, Economics, Foreign, Great Britain, United States, Theses (U)
IDENTIFIERS: Replacement cost, Price changes (U)

This thesis examines the methods proposed and employed to recognize the effects of inflation in financial reporting. A brief discussion of the development of valuation theory is presented and the principal alternatives to the present historic cost based method are described. The development of specific inflation accounting proposals and methods is described. The proposals for general price-level adjusted financial statements by the accounting profession are identified, and emphasis is given to the description of the replacement cost methods adopted by the governments in the United States and England. Specific methods of developing replacement costs in compliance with existing regulations are analyzed. The implementation and impact of replacement costing on a firm is described and possible alternatives to the specific method employed are explored. Conclusions are drawn as to the value of the replacement cost financial data, and opinions are offered concerning appropriate valuation methods. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A036 159 5/9 14/2 14/1 1/3

ARMY TRAINING SUPPORT CENTER FORT EUSTIS VA

Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator. (U)

JAN 77 27P Toomepuu.Juri :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the DoD/NASA Simulation Technology Coordination Group Meeting (3rd), 18 Jan 77, Naval Training Equipment Center, Orlando, Florida.
DESCRIPTORS: *Army training, *Flight simulators, *Training devices, *Transfer of training, *Cost effectiveness, *Flight training, *Helicopters, Flight simulation, Test and evaluation, Television display systems, Television cameras, Terrain, Army procurement, Pilots, Cost analysis, Visual surveillance (U)
IDENTIFIERS: CH-47 aircraft, H-47 aircraft, Visual systems, BOIP(Basis Of Issue Plan), Basis of Issue Plan (U)

This report gives an overview of the Army's current efforts to test and evaluate the prototype CH-47 Helicopter Flight Simulator (CH47FS). This effort includes a combined development and operational test (DT/OT II) and a Cost and Training Effectiveness Analysis (CTEA). The CH47FS is the first prototype of the Army's new generation flight simulators with six degrees of freedom motion system which incorporate a video camera/terrain board visual system. The current evaluation represents a significant advance in the procedures and methods for validation of the Army's stated flight simulator requirements. During the operational test, transfer of training experiments will be conducted for both institutional and unit pilot training, and objective and subjective training effectiveness data will be collected. The CTEA, using data generated by the test, will evaluate the simulator cost and training effectiveness for various training packages, defined in terms of the extent of substitution of aircraft by simulator in pilot training. A Basis of Issue Plan (BOIP) model for flight simulators, based on mathematical programming techniques. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A036 146 5/3

CENTER FOR NAVAL ANALYSES ARLINGTON VA

An Evaluation of the GNP Deflator as a Basis for Adjusting the Allowable Price of Crude Oil, (U)

FEB 77 56P Jondrow,James M. :Chase, David E. ;
REPT. NO. CRC-308

UNCLASSIFIED REPORT

DESCRIPTORS: *Crude oil, *Costs, Economics, Exploration, Inflation(Economics), Price index, Production, Petroleum industry (U)

The price controls on crude oil, beginning in February 1976, allowed the average price to grow at the same rate as the GNP deflator. An additional increase up to 3% per year was also allowed. Furthermore, the two adjustments to price were limited to a total of 10% per year. The use of the GNP deflator to adjust the price of crude oil is evaluated to determine whether it compensates for changes in the prices of purchased items and labor used in the discovery and production of crude oil. A price index for these costs is constructed and compared with the GNP deflator for the period 1965 to 1976. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A036 122 5/2

STANFORD RESEARCH INST MENLO PARK CALIF

Requirements and Alternative Designs for Automating the Publication of NAVSEA MOTD at the NSDSA. (U)

DESCRIPTIVE NOTE: Final rept. 1 Jul-30 Nov 76.
JAN 77 152P Bialik,Jack J. :Whiting-O'Keefe,Patricia :
REPT. NO. SRI-4739-7
CONTRACT: N00014-76-C-0407
PROJ: F55522
TASK: ZF55522003

UNCLASSIFIED REPORT

DESCRIPTORS: *Information systems, *Information retrieval, *Cost analysis, Manuals, Naval logistics, Naval planning, Documents, Technical information centers, Automation, Shipboard, Distribution, Production, Data storage systems, State of the art (U)
IDENTIFIERS: Maintenance and Operator Technical Data, MOTD(Maintenance and Operator Technical Data), WU11860015, PE62757N (U)

The United Sates Navy is currently in the initial phase of the Navy Technical Information Presentation Program (NTIPP), which is intended to modernize the generation, maintenance, publication, and distribution of MOTD on a Navy-wide basis. At the same time, NAVSEA, with an extremely large MOTD production requirement, is in the process of improving its own production capabilities. This report analyzes the ability of the current NSDSA publication support system (ADPREPS) to supply those requirements, and the alternative technical approaches that might be used to satisfy the NSDSA's growing requirements in the near future. The near future is defined as a period three to four years after the issuance of this report. The investigations were all placed within the context of the NTIPP. The manner in which the NSWSES publication system modernization program will be compatible with the later NTIPP developments was a major consideration. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A035 889 5/1 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Rate Stabilization at Navy Industrial Fund Research and Development Activities. (U)

DESCRIPTIVE NOTE: Master's thesis, DEC 76 85P Kramar,Joel David ;Solberg, Ernest Arnold ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Research management. *Costs. *Naval research laboratories, Accounting, Finance, Policies, Department of Defense, Rates, Stabilization, Regulations, Resource management, Test facilities, Indirect costs, Jobs, Labor, Time dependence, Naval budgets, Allocations, Theses (U)

IDENTIFIERS: *Prices, Industrial funding, Billing, Workloads, Overhead, Funding, In-house laboratories, Navy industrial fund (U)

Recently the Assistant Secretary of Defense (Comptroller) directed that all DOD [illegible]ially funded activities bill their customers on the basis of stabilized rates. Industrially-funded R/D activities are included in the policy change. This paper addresses the subject of stabilized rates at R/D activities — (1) Identifying the policy change; (2) Tracing its emergence in DOD; and (3) Assessing potential impacts. The writers conclude that stabilized rates are more appropriate for non-R/D activities than for R/D activities. However, stabilized rates are workable in the R/D environment as long as one recognizes that the R/D workload is essentially a level-of-effort concept, and as long as minimal adjustments to locally established rates are made at higher levels. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A035 823 14/1 9/2

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

Computer Aided Cost Estimation for Production Engineers. (U)

DESCRIPTIVE NOTE: Final rept., MAR 76 112P Scott.Calvin Gregory :
REPT. NO. DARCOM-ITC-02-08-76-205

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer aided diagnosis. *Cost estimates. Computer applications. Input. Research management. Cost analysis. Tools. Materials. Labor. Manufacturing. Computer programs. Parametric analysis (U)

IDENTIFIERS: Trees(Mathematics) (U)

This report develops a computer system which will allow an engineer to utilize the computer to aid him in preparing a cost estimate. Input to the programs is detailed information on the production process being analyzed. Included in the input are manufacturing operation times, material costs, tooling costs, labor costs, and various indirect fees associated with the manufacturing process. The output includes two reports. The first is a detailed report on each operation, and the second is a summary sheet summarizing the costs of an operation. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A035 671 14/1 13/8 19/6

ARMY ARMAMENT COMMAND ROCK ISLAND ILL COST ANALYSIS DIV

Producibility Engineering and Planning (PEP). (U)

DESCRIPTIVE NOTE: Technical rept.,
JAN 77 70P Riedesel,Paul R. ;
REPT. NO. DRSAR-CPE-77-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Production engineering, *Guns, Life cycle costs, Regression analysis, Cost analysis, Drawings, Manhours, Army planning, Mortars, Grenade launchers, Howitzers, Army operations (U)

A method of estimating Producibility Engineering and Planning (PEP) costs for proposed armament systems is presented. The method is intended for use in the development phase of the life cycle of an armament system. A cost estimating relationship (CER) has been developed based upon the number of drawings for an armament system. The methodology of CER development as well as historical costs and numbers of drawings are included as an aid to the cost estimator. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A035 262 15/7 15/5

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Military Construction Engineering and Design Cost Forecasts. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 77 30P O'Connor,Michael J. ;
Brown,Gerald J. ;DeCarcy,John R. ;
REPT. NO. CERL-TR-P-77
PROJ: DA-4-A-762719-AT-05
TASK: 4-A-762719-AT-0503

UNCLASSIFIED REPORT

DESCRIPTORS: *Military engineering, *Construction, *Cost models, Military facilities, Military planning, Cost estimates, Predictions, Statistical analysis (U)

This report presents a statistical model for forecasting engineering and design (E and D) costs to aid the Directorate of Military Construction in establishing yearly targets for Division/District E and D rates. Data for nine military Construction Divisions/Districts from fiscal year (FY) 1966 through fiscal year 1975 were analyzed. A statistically significant model for eight Districts was developed and verified by a retrospective test. E and D costs/rates predicted as a function of the estimated cost of construction for the eight Districts are presented for FY 76 and FY 77. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A035 168 14/1 9/2

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Army Life Cycle Cost Model; Programmer's Guide. Volume II. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 76 51P Brannon,Richard C. :
REPT. NO. DCA-R-15-/01-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A021 900.
DESCRIPTORS: *Life cycle costs, *Cost models, *Programming manuals, *Cost analysis, Computer programs, Time sharing, Cost estimates, Weapon systems (U)

Volume 1, User's Guide, describes the Army LIfe Cycle Cost Model, a time sharing cost model which produces both static and time phased parametric cost estimates for major weapons systems. The output reports conform to the latest Research and Development, Investment, and Operating and Support DA Pamphlets, 11-2, 11-3, 11-4. Program listings of the model and its associated report generator are contained in Volume 2, Programmer's Guide. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A035 091 14/1 17/7 14/4

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. Quarterly Meeting held at San Diego, Calif. on 24-26 February 1976. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 76 172P Stauffer,Russell B. :
REPT. NO. AGMC-76-008

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Inertial systems, *Reliability, Cost effectiveness, Meetings, Logistics support, Monte Carlo method, Design to cost, Transmitter receivers, Gas turbines (U)

The proceedings contain texts and slides of invited papers; and reports from working groups concerned with programming, distribution, and change control of the life cycle cost model being developed by the Task Group. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MQ7

AD-A035 066 17/7 14/1

NAVAL WEAPONS ENGINEERING SUPPORT ACTIVITY WASHINGTON D C

A Comparison Between the AN/ARN-84 (V) and the AN/ARN-118 (V) TACANS, Based on the Life Cycle Cost. (U)

DESCRIPTIVE NOTE: Final rept..
NOV 76 43P Cundari,Lawrence A. ;
REPT. NO. NAVWESA-R-7604

UNCLASSIFIED REPORT

DESCRIPTORS: *TACAN, *Life cycle costs, *AN/ARN-118(V), Cost analysis, Coast Guard, Air Force, Reliability, Cost effectiveness, Savings, Peacetime, Avionics, Maintenance, Distance measuring equipment, Navy (U)
IDENTIFIERS: *AN/ARN-84(V), Warranty, War time (U)

TACAN (Tactical Air Navigation) equipments are being procured for the Navy, Coast Guard, and Air Force. The life-cycle costs and performance characteristics of different models of these equipments vary greatly. The two equipments currently being procured are the AN/ARN-84(V), for the Navy and Coast Guard, and the AN/ARN-118(V) for the Air Force. This report is a cost analysis based on the life cycles of these two equipments. It provides data intended to aid NAVAIR and OPNAV in making future procurements cost effective and responsive to both peacetime and war time TACAN requirements. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MQ7

AD-A034 930 12/1 5/3

CALIFORNIA UNIV LOS ANGELES DEPT OF ENGINEERING SYSTEMS

Lower Bounds for a Quadratic Cost Functional. (U)

DESCRIPTIVE NOTE: Interim rept..
NOV 74 10P Aronoff,Ethan ;Leondes, Cornelius T. ;
CONTRACT: AF-AFOSR-2166-72
PROJ: 9769
TASK: 01
MONITOR: AFOSR TR-76-1428

UNCLASSIFIED REPORT

Availability: Pub. in International Jnl. of Systems Science, v7 n1 p17-25 1976.
DESCRIPTORS: *Cost analysis, *Control theory, Quadratic equations, Optimization, Parametric analysis, Boundaries, Hilbert space, Reprints (U)
IDENTIFIERS: PE61102F, XUAFOSR97690; (U)

Lower bounds for a quadratic cost functional, applicable to certain optimal control problems, are derived. These bounds are tight, and are found to be useful in determining the quality of suboptimal controls. The use of a cost functional lower bound in the suboptimal control of a linear distributed parameter system is included. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A034 309 7/4

WALTER REED ARMY INST OF RESEARCH WASHINGTON D C

Dual Column Operation for Gas Chromatograph-Mass Spectrometer. (U)

MAY 76 4P Kazyak,Leo :

UNCLASSIFIED REPORT

Availability: Pub. in Analytical Chemistry, v48 n12 p1826-1828 Oct 76.
DESCRIPTORS: *Mass spectrometers. *Gas chromatography. *Mass spectrometry. Quinazolines, Capillaries, Column chromatography. Ketones, Metabolites, Reprints (U)
IDENTIFIERS: WU088 (U)

An arrangement to operate dual columns, i.e. a capillary and a packed column in a gas chromatograph-mass spectrometer is described. The packed column provides the make-up for the capillary column so that the molecular separator can be retained in the system. This affords efficient operation of both columns without extensive alteration of the equipment and eliminates the necessity to interchange columns. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A034 192 15/5 6/8

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Commercial Holding Cost Differential between Dry Storage and Controlled Cold Storage for Meal, Combat, Individual (MCI). (U)

DESCRIPTIVE NOTE: Technical memo.,
OCT 76 25P Yamita,Aubrey A. :
REPT. NO. TROSCOM-TM-76-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Military supplies. *Food. *Storage. *Cost analysis. Cold storage. Warehouses. Rotation. Deterioration. Army procurement (U)
IDENTIFIERS: *Dry storage (U)

The US Army maintains war reserve stocks of Meal, Combat, Individual (MCI). These stocks are currently held in commercial cold storage warehouses. Periodically before spoilage occurs these stocks must be sent to the field for consumption. These stocks of MCI's are then replaced by new stocks. This process is called rotation. Dry storage of MCI's has been considered as an alternative to controlled cold storage. Dry storage requires more frequent rotation than does controlled cold storage, since MCI's deteriorate more rapidly under dry storage conditions. The study compares the costs involved in holding the MCI's under conditions of dry storage and controlled cold storage. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A033 972 14/2 14/1 5/9

ARMY AVIATION CENTER FORT RUCKER ALA

Cost and Training Effectiveness Analysis (CTEA) of the CH-47 Flight Simulator (CH47FS). (U)

DESCRIPTIVE NOTE: Study plan.
DEC 76 44P

UNCLASSIFIED REPORT

DESCRIPTORS: *Flight simulators, *Cost effectiveness, *Army training, Training devices, Helicopters, Operational test and evaluation, Methodology, Army aviation, Flight training, Instructional materials, Flight simulation, Performance(Human), Cost analysis, Skills (U)
IDENTIFIERS: H-47 aircraft, Ch-47FS aircraft (U)

The CH47FS CTEA Study Plan presents the purpose of the study and the terms of reference, including the problem statement, the objectives, scope, limits and assumptions, and the Essential Elements of Analysis (EEA). The alternative training packages selected for analysis and the Measures of Training Effectiveness (MOTE) are defined. The support and resource requirements for the study are listed and control procedures and the study schedule established. Included are also the methodology for analyzing training effectiveness, the operational test plan for generating effectiveness data, and the methodology for cost analysis. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A033 926 9/5 14/1 17/9

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

Break-Even Analysis of VADS, M163, Antenna Protection Device. (U)

DESCRIPTIVE NOTE: Final note.
JUL 76 14P Husson,Richard D. ;Johnson, David M. ;
REPT. NO. DRSAR/SA/N-52

UNCLASSIFIED REPORT

DESCRIPTORS: *Antenna components, *Radar antennas, *Protective equipment, *Cost analysis, Life expectancy (U)
IDENTIFIERS: Break even analysis, M-163 Vulcan Air Defense System (U)

This note presents a break-even analysis conducted to determine how much can be spent (per device) for an antenna protection device for the radar on the Vulcan M163 System. The present value of costs without a protective device was equated to the present value of estimated costs with a protective device. This analysis gives the maximum amounts that can be spent on protective devices for varying degrees of protection. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A033 754 15/5

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Consolidation of RPMA at Fayetteville, N. C. Volume I. Executive Summary for the Study of Consolidation of RPMA in the Fayetteville, N. C. Area. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 76 30P Brown,David M. ;Kirby, Jeffrey G. ;May,Joyce L. ;
REPT. NO. CERL-TR-C-73

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A030518.
DESCRIPTORS: *Military facilities, *Maintenance, *Geographic areas, *Cost analysis, Savings, Manpower, Economic analysis, Quality assurance, Military planning (U)
IDENTIFIERS: Real property, Fayetteville(North Carolina), Pope Air Force Base, Consolidation, Fort Bragg (U)

The report provides an executive summary of the economic analysis performed to determine the feasibility of consolidating real property maintenance activities (RPMA) in the Fayetteville, NC area (Fort Bragg/Pope AFB). Results indicate that consolidation of RPMA at Fort Bragg and Pope AFB using an Army Industrial Fund Organization (AIFO) is feasible and that savings are possible based on the assumptions made in the study. Manpower reductions of 83 to 100 (6 to 8 percent) are to be expected. No loss of responsiveness or quality of work is expected. Since the savings are based on more than one military service, some of the savings, e.g., for equipment, may be realized by the Department of Defense and not entirely at the local level. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A033 667 21/5 13/8 5/3

AIR FORCE CONTRACT MANAGEMENT DIV KIRTLAND AFB N MEX

A Methodology for Estimating Jet Engine Costs Early in Weapon System Acquisition. (U)

AUG 76 38P Yanke,Michael A. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost models, *Jet engines, *Industrial production, Military procurement, Estimates, Weapon systems, Contract administration, Forecasting, Confidence level, Variables, Input output models, Statistical data, Decision making, Literature surveys, Data bases, Computer programs, Accounting, Costs (U)

The Department of Defense (DOD) is deeply concerned about developing accurate initial estimates for weapon system production costs. An area of particular interest is providing estimates of future production costs for jet engines. Current parametric models used by the Air Force identify engine cost as a function of output variables. Other DOD agencies consider relating input variables as well as output variables to production costs. This study was designed to find a better way to estimate engine production costs. The results of this research include the following findings: (1) current Air Force cost-estimating models are operationally ineffective; (2) raw materials-related variables are highly correlated with cost and should be considered in developing future cost-estimation models; (3) statistical validation of cost models should incorporate confidence interval testing at a specified alpha level for each prediction; and (4) the use of confidence intervals is the correct statistical approach for developing cost estimates which may be used in decision making. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A033 291 5/1 14/2

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

T and E Uniform Funding Policy, An Appraisal of the Fiscal Year 1975 Experience. (U)

DESCRIPTIVE NOTE: Study project rept.,
MAY 76 40P Schneider,John R. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Finance, *Test facilities, *Costs, Allocations, Standardization, Policies, Management planning and control, Test and evaluation, Accounting, Budgets, Resource management, Ranges(Facilities), Cost estimates (U)
IDENTIFIERS: Funding, Uniform funding policy, Direct costs, Cost reimbursements (U)

The Department of Defense implemented a new approach to the funding of most Test and Evaluation Facilities in fiscal year 1975. The new approach was called the Test and Evaluation Uniform funding Policy. It required all federal agencies using Test and Evaluation support to fund the direct costs associated with their individual programs. This study reports a synthesis of the growing pains of the Uniform Funding Policy in the first year of implementation. Information was gathered from the experience of the Space and Missile Test Center and selected users of T/E facilities. Two major recommendations are: (1) Perform an in-depth, objective cost/benefit analysis of the Uniform Funding Policy at a representative group of T/E facilities and user organizations; and (2) Apply the costing disciplines of C. SCSC to the T/E facilities. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A032 797 5/3 5/9

CENTER FOR NAVAL ANALYSES ARLINGTON VA

The Feasibility of a Geographic Pay Supplement for CONUS Military Personnel. (U)

SEP 76 80P Warner,John T. :
REPT. NO. CRC-295
CONTRACT: N00014-76-C-0509

UNCLASSIFIED REPORT

DESCRIPTORS: *Salaries, *Naval personnel, *Cost benefits, Data bases, Housing projects, Geographic areas, Housing(Dwellings), Naval planning, Naval shore facilities, Urban areas, Rural areas, United States, Price index (U)
IDENTIFIERS: Cost of living index (U)

This report considers the feasibility and desirability of making adjustments to military pay to correct for regional variation in the cost of living in the Continental United States (CONUS). First, the adequacy of existing data bases for implementing a pay adjustment is assessed. Next, the feasibility of using cost-of-living indexes for specific items to correct for regional differences in overall living costs is explored. Then, 1975 housing expenditure data provided by the Naval Facilities Engineering Command is used to construct housing cost indexes for 118 CONUS military installations. Various ways of grouping CONUS installations for the purpose of implementing a variable housing allowance (VHA) are suggested and the costs of several alternative VHA plans are estimated. Finally, an evaluation of the arguments for and against a geographic pay adjustment is provided. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A032 627 5/1 1/3 5/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Aircraft Airframe Cost Estimation Utilizing a Components of Variance Model. (U)

DESCRIPTIVE NOTE: Master's thesis.
OCT 76 98P Marcotte,Ronald C. ;
REPT. NO. AFIT/GOR/SM/76D-10

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Airframes, Mathematical models, Air Force procurement, Parametric analysis, Analysis of variance, Least squares method, Components, Error analysis, Acquisition, Theses (U)

Previous studies into airframe acquisition cost estimation do not explicitly recognize the existence of correlation in the historical data. If one believes this data problem exists, then it is possible to develop a components of variance model that takes the problem into Account. It is a more general model that recognizes two sources of error: (1) error due to different types of airframes and (2) overall or ordinary regression error. The variance of these two errors can be estimated and then can be utilized along with the technique of generalized least squares to obtain a cost estimating relationship which explicitly accounts for the data correlation. This modeling technique, when compared to techniques presently in service, shows that present estimating relationships underestimate the variance of the cost prediction of a new type airframe and overestimate the variance of the cost prediction of a follow-on airframe. Also, those existing techniques which implicitly recognize data correlation do not make use of all the data information available and therefore produce estimates with poor confidance prediction intervals. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A032 499 5/1 9/2

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Life Cycle Management of Army Tactical Management Information Systems (TACMIS). (U)

DESCRIPTIVE NOTE: Study project rept.,
MAY 76 27P Ward,Mack C. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Management information systems, *Cost models, *Tactical data systems, Life cycles, Data processing, Automatic, Decision making, Computers (U)

The purpose of this study is to examine the life cycle management of Army Tactical Management Information Systems with particular emphasis on integration of the requirements of the life Cycle System Management Model (LCSMM) for Army Systems, DA Pam 11-25, and the Army Management Information System (AMIS) AR 18-1. Considerable attention, both in the literature and in practice, has been given to the systems acquisition process for inception through development into production. The principal thrust of this attention, however, has been directed towards RDT and E and acquisition of weapons systems to counter a perceived threat. This study focuses on areas in the present AMIS Model that appear to be weak and attempts to correlate some of the more significant activities and documentation requirements with the LCSMM. The end result of this effort is the determination of the feasibility of developing a single Army TACMIS model with the detail of the LCSMM. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A032 458 15/5 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Magnitude of Internal Rework on the F-4 Aircraft during Depot Level Maintenance at Ogden Air Logistics Center. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 76 85P Berry,John B. ;Hines, Raymond M. ;
REPT. NO. SLSR-11-76B

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft maintenance, *Costs, *Maintenance management, Air Force planning, Depots, Value engineering, Quality assurance, Methodology, Theses, Jet fighters (U)
IDENTIFIERS: F-4 aircraft (U)

In May 1975, Mr. J. Turk, Office of the Secretary of Defense, expressed a desire to estimate the magnitude of rework cost within AFLC to determine if it was of sufficient magnitude to warrant special attention in all services. Ogden ALC was selected as a test area for this research. The primary objectives of the research were: (1) determine the magnitude of rework cost for the F-4 aircraft during depot level maintenance, (2) identify the major areas of rework, their primary causes, and their cost magnitudes, (3) develop a standard methodology for identifying and classifying rework in terms of maintenance areas, causes, and cost magnitudes, and (4) stimulate interest for conducting similar research at other ALCs and TRCs with the major emphasis on reducing rework cost. (Author) (U)

AD-A032 458

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A032 274 1/2 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Logistics Support Cost Analysis of the Advanced Aerial Refueling Boom. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 76 234P Jeffreys,Richard T. ;Sears, Carver L. ;
REPT. NO. AFIT/GSM/SM/76S-13

UNCLASSIFIED REPORT

DESCRIPTORS: *Refueling in flight, *Booms(Equipment), *Cost analysis, Computer programs, Logistics support, Models, Tanker planes, Life cycle costs, Computerized simulation, Theses (U)
IDENTIFIERS: KC-135 aircraft (U)

Under an Air Force contract, Douglas Aircraft Company is developing an Advanced Aerial Refueling Boom (AARB) for the Advanced Tanker/Cargo Aircraft System Program Office (ATCA SPO). The purpose of the AARB development program is to demonstrate that an advanced technology boom system, which will eliminate some of the limitations of the existing KC-135 boom, can be designed and successfully flown. To date, development of the AARB has been mainly oriented toward performance--meeting the design requirements. The ATCA SPO now desires to examine the costs of supporting the proposed design, if it is produced. This thesis is directed toward identifying the differential logistics support costs of the AARB. The Boom Model, a tailored version of the Air Force Logistics Command Logistics Support Cost (LSC) Model, is used to develop the logistics support cost figure of merit for the proposed AARB. The Boom Model is also used to develop a similar figure of merit for the existing KC-135 boom. The values for variables used in the KC-135 boom analysis are obtained from existing Air Force maintenance data collection systems. A methodology for extracting data from these systems is given. (U)

AD-A032 274

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A032 220 6/5 14/1

RAND CORP SANTA MONICA CALIF

Health Care Cost Sharing and Cost Containment. (U)

FEB 76 32P Newhouse,Joseph P. :
REPT. NO. P-5615

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.
DESCRIPTORS: *Public health, *Health surveys, *Cost analysis, Cost effectiveness, Insurance, Health care facilities, Costs, Medical services, Sharing, Hospitalizations (U)
IDENTIFIERS: Cost sharing, Health maintenance organization (U)

If cost sharing is not included in a national health insurance plan, little additional demand is likely to be generated for hospital services. By contrast, substantial demand will be generated for other services, such as physician office visits. This demand increase will probably be spread across all income classes, not concentrated among the poor. Large demand increases will cause services to be rationed. Exactly what the mechanisms for rationing will be is uncertain, but at least some of them would be considered undesirable. Therefore, if it is desired to eliminate cost sharing, a planned gradual phasing out of an initial deductible for the nonpoor appears attractive. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A032 202 17/2.1 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Demonstration of a Logistics Support Cost Model for Stage III of the Digital European Backbone Program. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 76 130P Rose,Galen J. :
REPT. NO. AFIT/GSM/SM/76S-22

UNCLASSIFIED REPORT

DESCRIPTORS: *Communication and radio systems, *Logistics support, *Cost models, *Life cycle costs, Radio equipment, Digital systems, Frequency modulation, Theses (U)
IDENTIFIERS: Digital European Backbone project (U)

This study provides a cost-based methodology for comparing alternative fixed ground communications radios. The study develops and demonstrates a life cycle logistics support cost model representing relevant initial investment costs and recurring maintenance and supply support costs. The scope of the study addresses only Stage 3 of the Digital European Backbone Upgrade Project. The cost model developed is an accounting model that aggregates the cost of thirteen separate cost element equations and requires 54 input data values. This methodology provides a systematic approach to estimating the relevant costs of proposed equipment options over their expected usage period. The model yields estimated cost results that indicate relative cost magnitudes and relative cost differential comparisons as figures of merit between equipment alternatives. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A032 071 5/1 14/1 13/8 5/3

FLORIDA UNIV GAINESVILLE DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING

Permutation Type Schedules on a Single Machine under Cost Criteria. (U)

DESCRIPTIVE NOTE: Research rept.,
JUL 76 21P Sivazlian,B. D. :
REPT. NO. RR-76-17
CONTRACT: DAHC04-75-G-0150, AF-AFOSR-76-2605-76
PROJ: 20061102A14D

UNCLASSIFIED REPORT

DESCRIPTORS: *Job shop scheduling, *Cost analysis, *Sequences, *Machine shop practice, *Industrial production, Systems engineering, Processing, Degradation, Test and evaluation, Modular construction, Test equipment, Electronic equipment (U)
IDENTIFIERS: Deferral costs, Discounted costs, Overhead costs, Fault detection, AS14D, PE61102A (U)

Optimal permutation type schedules are obtained for a class of n jobs one machine type problems using as criteria i. the total processing cost, ii. the total deferral cost, and iii. the total processing and deferral cost. The set of seven models developed include cases when the machine deteriorates with usage, and when resetting of the machine is possible at the completion of each job. Particular attention is devoted to accounting for the time value of money, an important factor in the case of large tasks extending over prolonged periods of time such as construction projects. Use is made of a theorem in underlying the structural equivalence of all the models considered. Finally, an application related to a modular configuration is discussed. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A032 061 5/1 5/3 14/1 13/8

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

An Analysis of the Need for Industrial Engineering Capability in Production at Electronic Systems Division. (U)

DESCRIPTIVE NOTE: Study project rept.,
NOV 74 48P Hardaway,Charles Edward :

UNCLASSIFIED REPORT

DESCRIPTORS: *Industrial engineering, *Design to cost, *Industrial production, Cost analysis, Materiel, Careers, Production control (U)
IDENTIFIERS: Career management, Cost control (U)

This study examines the need for industrial engineering capability within production at Electronic Systems Division (ESD). Production is looked at from World War II to the present time to show why production management is perceived today by many program managers and high level functional manager as only the classical production management techniques of tracking, monitoring and expediting deliverables. The current emphasis on cost is then examined to show why this classical approach is no longer a viable approach to production management. It is shown that production management must include close interface between industrial engineering and design engineers to make early determination of producibility and manufacturing feasibility when the design is most flexible and trade-offs are least costly. ESD is analyzed to determine if the production management functions within the Deputates have appropriate engineering capability to perform these functions. Factors causing resistance to obtaining industrial engineering capability in program production offices are discussed with a recommended plan for overcoming these resistance factors. This study was accomplished by document research and interveiws of key personnel involved in DOD acquisition. It shows that more engineering capability is required in the production functions of ESD. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A031 843 13/13 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary. (U)

DESCRIPTIVE NOTE: Facility systems integration design study,
SEP 76 38P Alexander,Roland T. ; Carmichael,Terence J. ;Craig,William A. ; High,John T. ;Inouye,Dom M ;
REPT. NO. AFIT/GCE/MC/76S-1-VOL-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A031 384.
DESCRIPTORS: *Warehouses, *Modular construction, *Logistics planning, *Life cycle costs, *Structural engineering, Frames, Pile structures, Steel, Fire prevention, Cost analysis, Energy, Electrical engineering, Refrigeration systems, Heating, Theses, Cements, Foundations(Structures) (U)

The conceptual development and design of a general warehouse module for the Norfolk, Virginia area was accomplished. A life cycle cost analysis was made to furnish the Department of Defense with information to be used in a study of the service's material distribution system. The design embraced civil, mechanical, and electrical engineering aspects of the facility. Various structural schemes were investigated with regard to feasibility and flexibility within a range of building heights from 30 to 60 feet. Alternative methods of satisfying energy requirments were analyzed with the aim of maintaining specified internal environmental conditions and accommodating anticipated electrical loads. Design of an associated electrical distribution network and lighting system were included. A comprehensive discussion of fire protection considerations is also presented. The design results and economic analysis indicate: (1) a braced frame steel structure is the most cost effective structural plan. (U)

AD-A031 843

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A031 839 20/6 14/1 17/2

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Life Cycle Costing of an Emerging Technology: The Fiber Optics Case. (U)

DESCRIPTIVE NOTE: Final rept. Mar 75-Mar 76,
MAR 76 442P Jones,Carl R. ;Johnson, Ronald L. ;Knobloch,Earle W. ;McGrath,John M. ;Michna,Kenneth R. ;
REPT. NO. NPS-55Js76031

UNCLASSIFIED REPORT

DESCRIPTORS: *Fiber optics, *Life cycle costs, *Optical communications, *Fiber optics transmission lines, Electrooptics, Optical waveguides, Data links, Cost effectiveness, Cost estimates, Cost models, Data transmission systems, Economic analysis (U)
IDENTIFIERS: A-7 aircraft, ALOFT(Airborne light optical fiber technology), Airborne light optical fiber technology, Optical fibers (U)

As significant technological advances in fiber optics and optical data transmission methods are being made, it is necessary to develop appropriate methods for estimating life cycle costs for alternative coaxial/twisted pair wire and optical fiber avionics. In Volume One measures of effectiveness are suggested for each alternative system. An approach, which structures the technological and demand uncertainties of fiber optics, is developed through scenarios as a means of relating cost and effectiveness. It is suggested that Delphi and experience curve techniques be used in conjunction with ordered scenarios as a technological forecasting technique for estimation of life cycle costs of fiber optics. In addition, a review of the historical and technological background of fiber optics and their application to the Naval Electronics Laboratory center (NELC) A-7 Airborne Light Optical Fiber Technology (ALOFT) Program is included. (Author) (U)

AD-A031 839

UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A031 770 17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (6th) Held at St. Petersburg, Florida, on 25-27 February 1975. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 75 222P Stauffer,Russell B. :
REPT. NO. AGMC-76-007

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycles, *Cost analysis, *Inertial systems, *Meetings, *Inertial navigation, Costs, Budgets, Logistics, Design to cost, Joint military activities, Maintenance, Spare parts, Management planning and control, Acquisition, Economics, Reliability(Electronics) (U)

These proceedings describe the activities of the sixth quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems held 25 - 27 February 1975 in St. Petersburg, Florida. The proceedings contain the texts and slides (where available) of the invited papers and the results of sub-group meetings on creation of an LCC Task Group descriptive paper and preparation of input/output specifications and finalization of variable names for the LCC model under development. (Author) (U)

AD-A031 770

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A031 384 13/2 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A General Warehouse Module Conceptual Design and Cost Analysis. Volume II. Main Text and Appendices. (U)

DESCRIPTIVE NOTE: Facility systems integration design study.
SEP 76 701P Alexander,Roland T. :
Carmichael,Teren J. :Craig,William A. :
High,John T. :Inouye,Don M. :
REPT. NO. AFIT/GCE/MC/76S-1-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-A031 843. Master's thesis.
DESCRIPTORS: *Warehouses, *Logistics, *Modular construction, *Cost analysis, Frames, Pile structures, Steel, Fire prevention, Refrigeration systems, Electric power distribution, Life cycle costs, Theses (U)
IDENTIFIERS: Tilt slab walls, Sodium vapor lamps (U)

The conceptual development and design of a general warehouse module for the Norfolk, Virginia area was accomplished. A life cycle cost analysis was made to furnish the Department of Defense with information to be used in a study of the Service's material distribution system. The design embraced civil, mechanical, and electrical engineering aspects of the facility. Various structural schemes were investigated with regard to feasibility and flexibility within a range of building heights from 30 to 60 feet. Alternative methods of satisfying energy requirements were analyzed with the aim of maintaining specified internal environmental conditions and accommodating anticipated electrical loads. Design of an associated electrical distribution network and lighting system were included. A comprehensive discussion of fire protection considerations is also presented. The design results and economic analysis indicate: (1) a braced frame steel structure is the most cost effective structural plan. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A030 788 14/1 21/5

TELEDYNE CAE TOLEDO OHIO

Engine Systems Ownership Cost Reduction - Aircraft Propulsion Subsystems Integration (APSI). (U)

DESCRIPTIVE NOTE: Final rept. Apr 73-Aug 75
AUG 75 154P Wagner,William ;Gabrys, Alfred ;Knight,Wesley ;
REPT. NO. TCAE-1467-Vol-2
CONTRACT: F33657-73-C-0620
PROJ: AF-668A
TASK: 1
MONITOR: AFAPL TR-75-100-Vol-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-C004 839L.
DESCRIPTORS: *Life cycle costs, *Turbofan engines, *Cost analysis, *Gas turbines, *Design to cost, *Savings, Low costs, Air Force procurement, Cost benefits, Airframes, Interfaces, Integrated systems (U)
IDENTIFIERS: Cost of ownership, Aircraft propulsion (U)

This report summarizes Teledyne CAE's experience and conclusions in developing reduced-cost adaptive components, airframe interface requirements, and integrated systems plans under the AFAPL-sponsored Aircraft Propulsion Subsystem Integration (APSI) program. The APSI program is directed to evolving the Teledyne CAE Model 555 ATEGG into a turbofan Joint Technology Demonstrator Engine (JTDE). Reduced cost of engine ownership is one major objective of the APSI program. It was, therefore, deemed advisable to summarize that task into this document. Section 2.0 of this report provides an overview of engine ownership costs, as perceived and evaluated by Teledyne CAE, in accomplishing APSI-program tasks. Section 3.0 describes the application of the cost reducing methodology, including the results of iterating the baseline and scaled engines and applying Design-to-Cost (DTC) methods during their design. Section 4.0 advances 18 specific cost reduction topics. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A030 782 15/5 14/1 13/10 5/2

OFFICE OF THE CHIEF OF NAVAL OPERATIONS WASHINGTON D C

Visibility and Management of Support Costs - Ships (VAMOSC II). (U)

DESCRIPTIVE NOTE: Final rept. for Oct 75-Sep 76.
SEP 76 225P Anderson,Joseph F. ;Rogin, Leo ;Flynn ,John J. ;Cook,Russell A. ; Richter,Ronald P. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A008 334.
DESCRIPTORS: *Logistics support, *Naval vessels, *Naval logistics, *Weapon systems, *Management information systems, *Logistics management, *Cost analysis, Maintenance, Cost effectiveness, Costs, Resource management, Data bases, Life cycle costs, Naval training, Naval personnel (U)
IDENTIFIERS: TSS(Total support systems), Total support systems, MBO(Management by objective), Management by objective, O and S(Operating and support) costs, Operating and support costs, 3M systems, Fleet modernization program, Expendable stores costs (U)

Weapon System O and S costs often exceed acquisition costs and a need has been identified to provide an O and S cost display for control at the weapon system and equipment managerial levels. This study details the method for collecting detailed O and S costs for ships from existing Navy data systems, highlights the improvements necessary to collect full ship O and S costs. Presents estimated costs, schedules, and the management organization for implementing an MIS to display these costs, and provides a sample MIS product for six ships. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A030 763 15/5 14/1 1/3 13/10

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Comparative Analysis of the Relationships of Total Distribution Costs between Airlift and Sealift. (U)

DESCRIPTIVE NOTE: Master's thesis,
JAN 74 115P Boudreaux,Lionel A. ;Cooper, Thomas J. ;
REPT. NO. SLSR-4-74A

UNCLASSIFIED REPORT

DESCRIPTORS: *Airlift operations, *Cost analysis, *Logistics planning, *Sea traffic, Logistics support, Personnel management, Salaries, Distribution (U)
IDENTIFIERS: *Sealift operations (U)

Airlift and sealift are provided for the Department of Defense (DoD) by the Military Airlift Command (MAC) and the Military Sealift Command (MSC) respectively. Transportation services are paid for by the user through separate industrial funds. A comparison of the costing criteria used by each agency to establish tariffs, showing the relationship to user requirements, provides a foundation for measuring true DoD transportation costs. In order to make recommendations which would strengthen the compatibility of the tariff structures, a comparative analysis was made of the costing criteria presently used. The primary recommendations are: (1) Separate and exclude the training costs resulting from maintaining the strategic mobility policy; (2) Include the costs incurred at ocean terminals; (3) Exclude the cost of MSC project ships; (4) Include the pay of both civilians and military employees; and (5) Continue the use of the industrial fund concept. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A030 716 14/1 12/1 15/5

AIR FORCE ACADEMY COLO

The Use of Statistical Sampling in Contract Pricing. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 76 28P Helmer,F. Theodore ;Utter, Harry ;
REPT. NO. USAFA-TR-76-17

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Air Force procurement, *Contract proposals, *Statistical samples, *Statistical analysis, Contracts, Data bases, Cost models, Sampling (U)
IDENTIFIERS: *Price analysis, Backlogs (U)

This report provides the reader with the results of a study on the use of statistical sampling techniques on pricing cases in one Air Force Plant Representatives Office (AFPRO). The study reveals that 38% of the AFPRO pricing workload is devoted to 1-1/2% of the contractual dollars and that 77% of the workload is devoted to 11% of the dollars proposed. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A030 649 12/2 12/1 14/1

STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH

A Theory for Semi-Markov Decision Processes with Unbounded Costs and Its Application to the Optimal Control of Queueing Systems. (U)

DESCRIPTIVE NOTE: Technical rept.. AUG 76 82P Orkenyi,Peter :
REPT. NO. TR-64
CONTRACT: N00014-76-C-0418, NSF-Eng-75-14847
PROJ: NR-047-061

UNCLASSIFIED REPORT

DESCRIPTORS: *Decision theory, *Cost analysis, *Markov processes, *Queueing theory, Optimization, Costs (U)
IDENTIFIERS: *Semi-Markov decision processes (U)

Semi-Markov decision processes with countable state and action spaces are investigated. The optimality criteria considered are the average cost criterion, the undiscounted cost criterion, and the discounted cost criterion. The common assumption of bounded costs has been replaced by some considerably weaker conditions. In particular, our assumptions are weaker than those made by Harrison, Hordijk, Lippman and Reed when they considered the same problem. The existence of optimal, stationary optimal and stationary E-optimal policies is investigated. Policy improvement is considered. Necessary and sufficient conditions for the optimality of a policy are given. Then the optimal control of queueing systems is considered by formulating this general problem as a semi-Markov decision process. Finally, four different ways of proving the optimality of an unimprovable policy are developed in the context of queueing systems. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A030 646 12/2 12/1 14/1

STANFORD UNIV CALIF DEPT OF OPERATIONS RESEARCH

Optimal Control of the M/G/1 Queueing System with Removable Server-Linear and Non-Linear Holding Cost Function. (U)

DESCRIPTIVE NOTE. Technical rept.. AUG 75 102P Orkenyi,Peter :
REPT. NO. TR-65
CONTRACT: N00014-76-C-0418, NSF-Eng-75-14847
PROJ: NR-047-061

UNCLASSIFIED REPORT

DESCRIPTORS: *Queueing theory, *Cost analysis, *Decision theory, Utilization, Costs, Computers, Time sharing, Optimization, Policies, Time (U)
IDENTIFIERS: *Cost functions, Idle time utilizations, Removable server, *Semi-Markov decision processes (U)

This report considers the M/G/1 queueing system with removable server. The cases of linear and non-linear customer holding cost functions are both considered. Non-instantaneous start-up times are allowed. The problem is to find an optimal policy for turning the server on and off. The optimality criteria considered are the average cost criterion, the undiscounted cost criterion and the discounted cost criterion. A certain class of simple policies, the hysteretic policies, is considered. Natural hysteretic policies and non-degenerate hysteretic policies are introduced. It is shown that there is a natural hysteretic policy which is average optimal, and that if the start-up times are instantaneous or the holding cost function convex, then there is a natural hysteretic policy which is undiscounted optimal. When discounting is used, the results are not as strong, except for the case where the holding cost function is linear. For the non-linear case we still obtain certain fairly weak sufficient conditions for a natural hysteretic policy to be optimal. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 554 14/1 15/3 15/5

MARTIN MARIETTA AEROSPACE ORLANDO FLA TECHNICAL INFORMATION CENTER

Life-Cycle Costing. A Selected Bibliography. (U)

OCT 76 28P McClure,Lucille ;

REPT. NO. RB-330-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Defense systems, *Weapon systems, *Data bases, *Military procurement, Accounting, Finance, Cost estimates, Data bases, Economic models, Reliability (U)
IDENTIFIERS: Record keeping, Financial control (U)

Life-Cycle Costing is a Department of Defense management concept that is applied in estimating costs during the acquistion of complete defense systems. The concept of Life-Cycle Costing has been around for several years. A great many of these years has been spent on bringing together policy, procurement, record keeping, financial control, and reliability cost estimates. The Air Force has made the greatest use of this concept but usually on small contracts. Only recently has Life-Cycle Costing become a prime consideration for all of the Armed Services. The main problem, particularly in estimating costs of undefined weapon systems, was the lack of a data base. The few attempts made in collecting data became so cumbersome that the sheer volume was uncontrollable. Several hundred Life-Cycle Cost models have been introduced but the cost estimates remained unrealistic. To overcome this problem, the Department of Defense has started a data base collection and storage system on the operating and support costs of some of the major weapon systems. This data base should help estimators in establishing trade-offs and projecting more realistic cost goals. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 548 21/5 14/1 15/5

NAVAL AIR DEVELOPMENT CENTER WARMINSTER PA

Proceedings of OSD Aircraft Engine Design and Life Cycle Cost Seminar. Held at Naval Air Development Center Warminster, Pennsylvania November 19, 20, and 21, 1975. (U)

NOV 75 473P Dienemann,Paul F. ;Birkler, J. ;Pressman,A. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft engines, *Life cycle costs, *Military procurement, Seminars, Gas turbines, Cost estimates (U)
IDENTIFIERS: Design (U)

The objective of the seminar on aircraft engine design and life cycle cost was to provide a forum and opportunity for government and industry representatives to exchange ideas and information about reducing costs of both current and future turbine engine programs. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 519 5/1 15/5 5/3

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Consolidation of RPMA at Fayetteville, NC. Volume III. Cost Analysis Support and Backup Data for the Consolication of RPMA in the Fayetteville, NC Area. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 76 380P Brown,D. W. ;Kirby,J. G. ;Nay,J. L. ;
REPT. NO. CERL-TR-C-73-Vol-3
PROJ: CERL-75-5

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 4, AD-A041 331.
DESCRIPTORS: *Maintenance management, *Cost analysis, *Integrated systems, *Army planning, *Cost effectiveness, *Army operations, Economic analysis, Data acquisition, Army budgets (U)
IDENTIFIERS: RPMA(Real Property Maintenance Activities), *Real property maintenance activities, *Army industrial fund organization, Consolidation (U)

This report presents the cost analysis support and the backup economic data used by the U.S. Army Construction Engineering Research Laboratory's (CERL) rpma Study Team to evaluate the feasibility of consolidating real property maintenance activities (RPMA) at Fort Bragg and Pope AFB, NC. Included are the research study plan, the Army Industrial Fund description and cash flow procedures, the legal analysis for consolidation actions, general concept of the Army Industrial Fund Organization, an analysis of the fiscal year (FY) 75 current method of operation and the proposed consolidation, implementation costs, and an environmental impact assessment. (Author) (U)

AD-A030 519

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 518 5/1 15/5

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Consolidation of RPMA at Fayetteville, NC. Volume II. Summary Cost Analysis for Consolidation of RPMA in the Fayetteville, NC Area. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 76 81P Brown,D. W. ;Kirby,J. G. ;Nay,J. L. ;
REPT. NO. CERL-TR-C-73-Vol-2
PROJ: CERL-75-5

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3, AD-A030 519.
DESCRIPTORS: *Maintenance management, *Cost analysis, *Army planning, *Integrated systems, *Cost effectiveness, *Army operations, Economic analysis, Data acquisition, Army budgets (U)
IDENTIFIERS: RPMA(Real Property Maintenance Activities), *Real property maintenance activities, Army industrial fund organization, Consolidation (U)

This report summarizes the results of an economic analysis performed to determine the feasibility of consolidating real property maintenance activities (RPMA) in the Fayetteville, NC area (Fort Bragg/Pope AFB). Results indicate that consolidation of RPMA at Fort Bragg and Pope AFB using an Army Industrial Fund Organization is feasible and economically desirable. Based on the actual fiscal year (FY) 75 workload, the consolidated organization could generate savings of between $814,000 (2 percent of combined FY 75 cost) and $1,184,000 (3 percent of combined FY 75 cost). Manpower reductions of 83 to 100 (6 to 8 percent) are to be expected. No loss of responsiveness or quality of work is expected. The new implementation costs of $718,000 should be recoverable within the first year of operation. (Author) (U)

AD-A030 518

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A030 508 9/2 17/2 14/1

COMPUTER SCIENCES CORP FALLS CHURCH VA

NSW GCOS Connection. (U)

DESCRIPTIVE NOTE: Interim rept. 22 Mar-12 Jun 76,
JUL 76 94P Grimes,Robert J. ;
CONTRACT: F30602-76-C-0199
PROJ: AF-5550
TASK: 555009
MONITOR: RADC TR-76-228

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer communications, *Communications networks, *Computer program documentation, *Computer files, *Cost benefits, Computer programs, Interfaces, Savings, Access, Digital computers, User needs (U)
IDENTIFIERS: *Computer software, Host computers (U)

This report provides a detailed examination of four specific alternatives providing an interface between the Honeywell H6180 (GCOS) and the ARPANET. The ultimate goal is to allow the H6180 to participate in the National Software Works (NSW) as a Tool Bearing Host (TBH). A configuration consisting of the H6180, Asynchronous Bit Serial Interface (ABSI), a PDP-11 operating as a network front-end (NFE) and the network IMP comprised the best alternative. (Author) (U)

AD-A030 508 UNCLASSIFIED PAGE 227

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A030 348 5/9 5/3

DEPUTY CHIEF OF STAFF FOR PERSONNEL (ARMY) WASHINGTON D C

Review of Permanent Change of Station Travel Entitlements. (U)

DESCRIPTIVE NOTE: Final rept. 20 May-30 Jul 76,
JUL 76 116P Seelig,Louis C. ;Frost, Stanfield , Jr.;Schrader,Daniel M. ;Sestric, Joseph L. ;

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
SUPPLEMENTARY NOTE: Prepared in cooperation with the Departments of the Air Force, Navy and Marine Corps.
DESCRIPTORS: *Military personnel, *Transfer, *Cost analysis, Rates, Military dependents, Policies, Transportation, Personnel management, Military law, Standards, Assessment, Reviews (U)
IDENTIFIERS: Change of stations, Travel allowances (U)

The purpose of the review was to determine the appropriate method and amount of payment which should be paid to members of the Uniformed Services when ordered to make a change in permanent duty station. The scope of the review was not limited to the individual service member, but included the impact on the dependents of the member transported on permanent change of station orders. The review was limited to moves within the continental limits of the United States. (Author) (U)

AD-A030 348 UNCLASSIFIED Z0MO7

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A030 296 13/6 5/3 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Feasibility of a Fare Bus System for Work-Commuting at Wright-Patterson AFB, Ohio. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 76 111P Shumway,Thomas R. ;Tonjes, Earl A. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Passenger vehicles, *Cost effectiveness, *Routing, *Rates, Optimization, Cost estimates, Air Force planning, Feasibility studies, Theses (U)
IDENTIFIERS: Bus fares, Mass transit, Fares, Commuting, Convenience, Wright-Patterson Air Force Base (U)

The purpose of the thesis was to determine the feasibility of a bus system charging a fare for work-commuting and to determine whether frequency, convenience, and travel time preferences varied in importance in the population. A questionnaire was used to survey military residents of Wright-Patterson AFB housing areas. Varying levels of demand and revenue were computed based on survey information. An example route was devised for purposes of analysis. The authors found that a subsidy would be required for a work-commuter system. Benefits from mass transit were presented for use by managers deciding on the feasibility of establishing a work-commuter system. Chi-Square One-Sample and Kruskal-Wallis One-way Analysis of Variance tests were used to determine the rank order importance of frequency, convenience, and travel time. The test revealed that the population was indifferent to the three factors. (Author) (U)

AD-A030 296

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A030 240 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Accuracy of Air Force Weapon System Cost Estimates as a Function of Time. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 76 153P McLeod,Hugh S. , III; Phillips,Jeffrey J. ;
REPT. NO. SLSR-5-76A

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost effectiveness, Cost estimates, Weapon system effectiveness, Contract administration, Department of Defense, Negotiations, Network analysis(Management), Linear regression analyses, Time studies, Accur (U)

Repeated experiences with unrealistic system acquisition cost estimates made by defense contractors and the Department of Defense have seriously undermined the willingness of Congress and the general public to fully support current and new acquisition programs. To facilitate regaining this support for defense programs, improvement in the accuracy of acquisition cost estimates is needed. In attempting to identify the factors that influence the accuracy of these cost estimates, this study is focused on the relationships between the accuracy of activity-cost estimates and three factors--the estimate's distance from the activity start date, the project start date, and the magnitude of the activity cost. Four accuracy measures were used: the magnitude and direction of the estimate error expressed as a percentage of the activity-cost, the absolute value of this error, the magnitude and direction of the estimate error expressed as a dollar value, and the absolute value of this error. The data base consisted of 282 cost estimates for eighty nine activities. A strong relationship was found between accuracy and the magnitude of activity cost. Weaker relationships were found between accuracy and the estimate's distance from both the activity start date and the project start date. (Author) (U)

AD-A030 240

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 239 15/5 14/1 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Taxonomy of Cost Estimating Characteristics as Applied to an Aircraft Replenishment Spares Model. (U)

DESCRIPTIVE NOTE: Master's thesis, JUN 76 206P Nelson,Eric E. ;Smith, William E. ;
REPT. NO. SLSR-01-76-A

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Air Force procurement, *Air Force budgets, Air Force Logistics Command, Theses, Weapon systems, Replenishment, Investments, Aircraft, Uncertainty, Taxonomy (U)
IDENTIFIERS: Replenishment Investment spares (U)

Department of Defense cost estimation requires improvement, particularly as it applies to budgetary estimates for major weapon system acquisitions. This research explores ways of improving cost estimating methodology by the development of a taxonomy of cost estimating characteristics which may be used as a guide in constructing and evaluating cost estimating models. Such a guide was developed on a framework of systems theory and applied to the construction of a conceptual model designed to estimate replenishment investment spares budgetary requirements for the Air Force Logistics Command (AFLC) in support of major weapon systems acquisitions. The taxonomy of cost estimating characteristics was then used to evaluate the conceptual model and the present AFLC replenishment investment spares model. The research demonstrated the usefulness of a taxonomy of cost estimating characteristics and concluded that budgetary estimates for replenishment investment spares could be improved. (Author) (U)

AD-A030 239

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 217 9/2 14/1 15/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Effects of Developmental Software on the Acquisition Management of Aeronautical Computer systems. (U)

DESCRIPTIVE NOTE: Master's thesis, JUN 76 127P Marshall,James R. ;Chapman, Craig E. ;
REPT. NO. SLSR-13-76A

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer program documentation, *Computer programs, *Cost analysis, *Weapon systems, Computers, Air Force procurement, Interfaces, Validation, State of the art, Scheduling, Theses (U)
IDENTIFIERS: *Computer software, Cost overruns (U)

The purpose of this research was to determine if the developmental software aspect of aeronautical computer system acquisitions was the cause of program cost overruns and schedule extensions. The hypothesis was that developmental software does cause program cost and schedule overruns. A structured interview was used to obtain data concerning three variable characteristics of developmental software: software documentation, software design and interface requirements, and software testing (validation and verification). A census of all on-going programs at Aeronautical System Division, Wright-Patterson AFB, Ohio, as of 1 January 1976, was performed. Criteria tests on the correlation of data with program cost and schedule changes was conducted to establish support for the hypothesis. The hypothesis could not be supported. Additional analysis coupled with observations compiled during the interviews indicated that it may not be the case that aeronautical weapon system acquisitions are being approached from a total system point of view, but rather that subsystems are being optimized to the detriment of the total weapon system acquisition. The authors feel that this suboptimization is a contributing cause to cost overruns and schedule extensions. (U)

AD-A030 217

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 162 9/2 14/1 15/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

An Exploratory Study of Software Cost Estimating at the Electronic Systems Division. (U)

DESCRIPTIVE NOTE: Master's thesis,
JUL 76 60P Devenny,Thomas J. :
REPT. NO. GSM/SM/76S-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer program documentation, *Cost estimates, *Computer programs, *Weapon systems, Computer programming, Decision making, State of the art, Performance, Costs, Command and control systems, Research management, Theses (U)
IDENTIFIERS: *Computer software (U)

The estimate of software development cost is the key piece of information in many software management decisions. No technique exists which can consistently produce the reliable and accurate cost estimates which managers need. This thesis research effort explored the software cost estimating process at the Electronic Systems Division of the Air Force Systems Command. The purpose of the research was to provide managers, researchers, and cost estimators with a better insight into the cost estimating process. Data were gathered from 16 major software acquisitions at ESD using both a structured interview and contractor furnished Cost performance Reports. The research findings identified some major problems which are currently inhibiting the development of accurate and reliable software cost estimates. To reduce these problems, recommendations are made to adopt a common cost estimating technique and to modify the use of contractor furnished software cost information. While the research was limited to ESD, the research findings and the recommendations may be applicable to other DoD software acquisition agencies. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 146 1/3 15/5

RAND CORP SANTA MONICA CALIF

Scheduled Maintenance Policies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program. (U)

JUN 76 75P Elwell,Ralph :Roach,Chris :
REPT. NO. R-1942-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: *Tactical Air Command, *Jet fighters, *Maintenance, *Cost effectiveness, *Logistics planning, Inspection, Aviation safety, Scheduling, Manpower, Savings, Policies, Air Force planning, Logistics management (U)
IDENTIFIERS: F-4 aircraft, Holloman Air Force Base (U)

Maintenance procedures for the F-4 aircraft in support of the AF Maintenance Posture Improvement Program were examined. The F-4 has been receiving maintenance on two independent schedules, one being a major calendar-based overhaul at a depot, the other being less drastic maintenance phased into six evenly spaced inspections and cyclically performed at the air base every 450 flying hours. It was found that: (1) certain minor inspections were unnecessary or unnecessarily frequent; (2) it was possible, with safety, to extend the base to 600 hours; and (3) many individual base inspections could be performed more efficiently during the dismantling at the depot. With all three steps implemented, it is estimated that, for the entire F-4 force, 1,537,500 maintenance man-hours (over 70 percent) per year would be saved. Furthermore, the number of aircraft tied up in the inspection docks on any given day would be reduced nearly 70 percent -- from 129 to 41. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 141 15/5 14/1 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Historical Analysis of Total Package Procurement, Life Cycle Costing and Design to Cost. (U)

DESCRIPTIVE NOTE: Master's thesis, JUN 76 130P Busek,Joseph R. , Jr;
REPT. NO. GSM/SM/76S-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Military procurement, *Cost estimates, *Management planning and control, Cost analysis, Life cycle costs, Cost benefits, Cost effectiveness, Comparison, Cost overruns, Contracts, Failure, Deficiencies, Scheduling, Confidence limits, Department of Defense, History (U)
IDENTIFIERS: *Design to cost, Total package procurement (U)

This study is the result of an attempt to prepare a historical analysis of the three major Department of Defense efforts developed to control costs in the acquisition process. Some might argue that other concepts, such as Value Engineering, PIECOST, or Should Cost, should be included, however, it is believed that the ones presented here represent the approaches most relevant to individuals involved in program control. The concepts analyzed include Total Package Procurement, Life Cycle Costing, and Design to Cost. The study is directed toward the individual with little knowledge of the concepts. It is designed to provide the reader with a general knowledge of what each concept is, when it is used, what some major ground-rules governing the concept's use are, and what some of the significant strengths and weaknesses of the concept are. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A030 099 15/5 5/1 15/7

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Army Force Planning Cost Handbook. (U)

JUN 76 755P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes report dated Jun 75. AD-A014 084.
DESCRIPTORS: *Army procurement, *Army planning, *Army budgets, *Cost analysis, *Handbooks, *Logistics planning, Management information systems, Force level, Army equipment, Management planning and control, Army operations, Army training, Manpower, National defense, Weapon systems, Deployment (U)
IDENTIFIERS: Programming planning and budgeting, Force deployment, Military force structure (U)

The Army Force Planning Cost Handbook (AFPCH) is organized into six sections for ease in locating the types of data contained therein and for its orderly presentation. Section 1 is an introduction to the AFPCH, its contents and usage; Section II contains per capita cost factors previously published in the Summary Cost Data Book for Army Managers; Section III contains detailed costs for major combat and combat supports units, together with methodology previously published in the AFPCH. Annex A (classification confidential) to Section III contains selected SRCs where future weapon systems have been substituted for the currently authorized systems; Section IV contains costs of 'notional' type division force equivalents, including support elements; Section V contains factors and methodology for estimating the cost of reserve units and, Section VI contains operating and support cost factors, as referenced in Appendix C, DA Pamphlet No. 11-4, for developing life cycle cost of materiel systems. (U)

AD-A030 069 17/7 14/1

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO INDUSTRIAL ENGINEERING SUPPORT DIV

AGMC Life Cycle Cost Model, an Accounting Model for Inertial Navigation Systems. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 76 70P Rogge,Richard W. ;
REPT. NO. AGMC-XRX-76-3

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *Inertial navigation, *Life cycle costs, Cost models, Cost analysis, Accounting (U)

This report described the accounting Model developed by AGMC to evaluate the Life Cycle Costs of Inertial Navigation Systems. However, it is a general purpose Model and may be tailored for other than Inertial Navigation Systems by simply re-naming parameters as applicable. The purpose of the Model is to provide a method to compare two or more types of systems, or maintenance options on the same system. It provides a simplified approach to modeling costs, as the number of different types of input data required is relatively small. This Model has the capability of isolating and identifying start-up costs and recurring costs. It allows analysis through three indenture levels: Line Replaceable Units (LRU), Shop Replaceable Units (SRU), and Depot Replaceable Units (DRU). Included in this report are a description of parameters, Model equations, a sample run print out and a program listing of the Model. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A030 024 5/3 1/3 15/5 14/1
9/2

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft). (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 76 80P Lilge,Ralph W. ;
REPT. NO. USAAVSCOM-TR-76-1A

UNCLASSIFIED REPORT

DESCRIPTORS: *Army procurement, *Inflation(Economics), *Army aircraft, *Cost analysis, *Computer programs, Aircraft, Avionics, Airframes, Computerized simulation, Cost models, Aircraft engines, Time series analysis, Cost estimates, Computations, Methocology, History, Indexes (U)
IDENTIFIERS: Inflation(Economics), Prices (U)

This report extends and revises Technical Report 76-1 which presents and describes the Historical Inflation Program, a computerized program generating historical inflation for the procurement of Army aircraft. The program can be updated monthly, is easily revised for changes in Bureau of Labor Statistics methods, and capable of handling data through the transition year, FY 77. Output is expressed as monthly, quarterly, calendar year inflation indices (in Calendar year 1967 base) and inflation factors (in any Fiscal Year base). This report contains updated tables of inflation factors, expressed in a FY 76 base. These indices and factors provide a means of adjusting historical cost data for the procurement of Army aircraft to constant year dollars. New features added since the previous report include: computations for the Derivation of Revised Weighting Factors, detailed indices enabling the adjustment of historical Labor and Material costs separately, and the demonstration of the application of a Time Series Analysis technique known as Box-Jenkins Autoregressive Integrated Moving Average (ARIMA) models to the forecasting of inflation indices. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A029 987 17/4 14/1

DECISIONS AND DESIGNS INC MCLEAN VA

An Application of Multi-Attribute Utility Theory: Design-to-Cost Evaluation of the U.S. Navy's Electronic Warfare System. (U)

DESCRIPTIVE NOTE: Technical rept. Jul 73-Jun 74, OCT 75 45P Hays,Michael L. ;O'Connor, Michael F. ;Peterson,Cameron R. ;
REPT. NO. DT/TR75-3
CONTRACT: N00014-75-C-0426, N00029-75-C-0084

UNCLASSIFIED REPORT

DESCRIPTORS: *Electronic warfare, *Design to cost, Naval Budgets, Costs, Department of Defense, Cost estimates, Cost models, Utilization, Theory (U)
IDENTIFIERS: Multiattribute utility functions (U)

This report reflects the development, validation, and utilization of a multi-attribute utility (MAU) model for use by the Naval Electronic Systems Command (NAVELEX) in comparing and evaluating six Electronic Warfare (EW) suite design proposals submitted by contractors under new design-to-cost policies enunciated by the Department of Defense (DoD). (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A029 748 9/2 14/1

MITRE CORP BEDFORD MASS

A Review of Software Cost Estimation Methods. (U)

DESCRIPTIVE NOTE: Technical rept., AUG 76 56P Clapp,J. A. ;
REPT. NO. MTR-3264
CONTRACT: F19628-76-C-0001
PROJ: AF-572H
MONITOR: ESD TR-76-271

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer program documentation, *Computer programs, *Cost estimates, Computer programming, Variables, Data bases, Costs, Errors, Machine coding (U)
IDENTIFIERS: *Computer software, *Cost estimation (U)

Software costs are becoming an increasingly larger portion of the cost of major military systems. This report presents the basic problems in estimating the cost of software development. Current strategies for making estimates are summarized and evaluated. Changes in the management of software acquisition and in the software development methods for large defense systems can improve software cost estimation. A number of these changes are identified. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 670 5/1 15/7 14/1

ARMY COMMAND AND GENERAL STAFF COLL FORT LEAVENWORTH KANS

A case Study of the Combined Arms Combat Developments Activity, Cost Consideration in Decisionmaking Regarding Combat Development Studies. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 76 91P Reinhard,Ransford A. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Master's thesis.
DESCRIPTORS: *Army research, *Combat effectiveness, *Cost benefits, Army planning, Decision making, Contracts, Manpower utilization, Resources, Shortages, Military requirements, Determination, Military doctrine, Army budgets, Army personnel, Civilian personnel, Theses (U)
IDENTIFIERS: *Combined Arms Combat Development Activity (U)

This thesis addresses the problem of whether cost-benefit analysis would assist the manager in decisionmaking regarding combat developments studies within the Combined Arms Combat Developments Activity (CACDA) and develops a basis for improved decisionmaking techniques. The case study determined that CACDA is a professional and competent organization capable of developing recommendations, alternatives, or solutions to many critical problems facing the Army; however, this capability has been degraded because CACDA has been tasked to undertake more combat developments studies than it has the capability to conduct. As a result of this excessive work load, significant delays in the planned completion of studies were experienced, and the desired validation of other studies may not have been possible. This situation resulted because the present system and management tools do not provide sufficient criteria for identifying the more critical studies and reducing the scope or eliminating the others. The study concludes that: (1) CACDA managers need an analytical tool to assist them in decisionmaking and developing recommendations to higher headquarters regarding whether a study should be conducted as proposed, (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 495 14/1 15/3

AIR FORCE TEST AND EVALUATION CENTER KIRTLAND AFB N MEX

Cost of Ownership Handbook. (U)

MAY 76 218P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.
DESCRIPTORS: *Cost analysis, *Cost estimates, *Handbooks, *Life cycle costs, *Defense systems, Models, Military procurement, Aircraft, Manpower, Maintenance (U)
IDENTIFIERS: *Cost of ownership, Subsystems, Overhead (U)

This handbook provides a definition of cost of ownership (operating and support costs) and provides the methodology for estimating and analyzing cost of ownership of systems and subsystems. All costs incident to ownership are considered including associated overhead costs. Included in the handbook is a generalized model which can be adapted to diverse systems and subsystems. Suggested data sources are included to guide users in data collection. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A029 482 17/7 14/1 15/5 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Cost Effective ILS. A Case Study and Evaluation. (U)

DESCRIPTIVE NOTE: Study project rept., NOV 74 55P Grubb,James R. ;
PROJ: DSMS-PMC-74-2

UNCLASSIFIED REPORT

Availability: Microfiche copies only.
DESCRIPTORS: *Logistics support, *Cost effectiveness, *Inertial navigation, *Systems management, Naval procurement, Integrated systems, Cost estimates, Life cycle costs, Display systems, Stabilized platforms, Avionics, Doppler radar (U)
IDENTIFIERS: *Integrated logistic support (U)

The purpose of this case study is to determine, through the analyses of the acquisition of a system, the areas which impact achieving ILS in a cost effective manner. The problem areas are identified in the case and recommendations are made to correct situations which impair achieving cost effective ILS. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A029 330 15/5 19/1

ARMY ARMAMENT COMMAND ROCK ISLAND ILL COST ANALYSIS DIV

Ammunition Cost Research Study. (U)

DESCRIPTIVE NOTE: Technical rept., JUN 76 175P Kalal,Gerald W. ;Gannon, Patrick J. ;
REPT. NO. ORSAR-CPE-76-4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.
DESCRIPTORS: *Army procurement, *Ammunition, *Cost estimates, Cost models, Ammunition components, Automatic weapons, Guns, Tanks(Combat vehicles), Investment expenditures, Production engineering, Industrial plants, Military facilities, Army planning (U)

At the complete round level of detail, statistically valid cost estimating tools for independent parametric cost estimates of ammunition investment costs have been difficult to construct. The long life span of ammunition items reduces the number and range of data points available for a given weapon system class (e.g., tank main-armament). To counter this problem, a research project has been undertaken to develop cost estimating tools for ammunition components. This report demonstrates how component-level cost models can be used to independently estimate medium-bore automatic cannon and tank main-armament ammunition investment costs with greater statistical validity than has been obtained with past approaches. The investment cost models cover ammunition initial production facilities (IPF) and procurement. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A029 318 12/2

ARMY MISSILE COMMAND REDSTONE ARSENAL ALA COST ANALYSIS DIV

Dependent (Conditional) Probability Aspects of Cost Estimating. (U)

AUG 76 17P Murphy,Edward L. , Jr:

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost Estimates, *Statistical analysis, Probability, Operations research, Weapon systems, Military procurement, Methodology (U)

An analytical procedure can be applied to provide decision makers with insight for making an optimum decision. The procedure is not limited to consideration of only three variables. It can be applied to evaluate conditional aspects of performance cost or time of one part of a system with one or more parts of the same or other systems. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A029 274 15/5

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

The Dilemma of Uncertainties Associated with Cost Estimating in the Project Management Office. (U)

DESCRIPTIVE NOTE: Student study rept.,
MAY 76 42P Davis,Guy W. ;
PROJ: DSMS-PMC-76-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Program Management Course.
DESCRIPTORS: *Army procurement, *Cost estimates, *Contract administration, *Management planning and control, Uncertainty, Cost analysis, Military planning, Contracts, Systems management, Department of Defense, Defense systems (U)

The purpose of the study was to investigate the dilemma of uncertainties associated with the cost estimating process in an Army Program Management Office during the systems acquisition process. In pursuing this objective, the study examines general approaches and purposes for preparing cost estimates and the problem areas which introduce uncertainties in the estimating process. The problems of primary concern were found to be in unforeseen program changes, inflation, inaccurate cost estimating, technical problems, and the lack of information. The report concludes with a discussion of various concepts being implemented to deal with uncertainties, and recommendations for improving estimating procedures in the project office. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 255 15/5

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Design to Cost and Life Cycle Costing: Complementary or Dichotomous. (U)

DESCRIPTIVE NOTE: Student study rept., NOV 74 60P McDonald,Warren Randolph ;
PROJ: DSMS-PMC-74-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Program Management Course.
DESCRIPTORS: *Military procurement, *Design to cost, *Life cycle costs, *Management planning and control, *Logistics management, Policies, Department of Defense, Air Force procurement, Air Force planning, Military requirements, Cost estimates, Research management, Air Force training, Military budgets (U)

The purpose of the study was to research two significant acquisition concepts, namely, design to cost and life cycle costing, to examine whether these concepts are complementary or dichotomous, and to isolate relevant implications for program managers. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 198 5/9 15/5 14/1

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Hard Data Sources Concerning More Cost Effective Maintenance. (U)

DESCRIPTIVE NOTE: Final professional paper, JUL 76 15P Foley,John P. , Jr:
REPT. NO. AFHRL-TR-76-58
PROJ: AF-1710
TASK: 171004, 171010

UNCLASSIFIED REPORT

DESCRIPTORS: *Maintenance, *Human factors engineering, *Cost effectiveness, Life cycle costs, Air Force training, Electronic technicians, Enlisted personnel, Job training, Job analysis, Instructions, Military planning, Skills (U)

The paper introduces the interested reader to a number of maintenance related human factors technologies and topics. These are important in reducing life cycle costs of hardware systems. The high costs related to maintenance and maintenance personnel are primary causes of high life cycle costs. The type and length of many maintenance training programs, as well as job structure make substantial contributions to such costs. The topics discussed in the paper include job performance criteria: identification of maintenance tasks: measurement of ability to perform identified maintenance tasks: ways of obtaining the efficient performance of such tasks, such as job performance aids and task oriented training: the requirement for the restructure of maintenance jobs: as well as the need for integrating human factors maintenance technologies. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 195 5/11 5/9 5/1

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO FLA

A Study to Develop Management Indices for the Chief of Naval Education and Training. Phase II - Capital Resource Indices. (U)

DESCRIPTIVE NOTE: Rept. for Feb-Jul 76, JUL 76 51P Swope,William M. ;Cordell, Curtis C. ;
REPT. NO. TAEG-TM-76-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval training, *Cost analysis, Economic analysis, Budgets, Management information systems, Time series analysis, Resource managemen (U)

This report covers the second phase of a four phase study undertaken by TAEG at the request of CNET to investigate the need for improvement in the quality of management information. This report develops recommendations for a set of management indices covering the use of capital resources. This report provides the CNET and lower echelons of command a set of tools which can be used to identify inefficiencies that exist in the use of training resources. These indices will provide information useful to the decision maker in the establishment of policy, long-range planning, and the management of resources. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A029 179 14/1

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO FLA

Training Resource Classifications: Direct-Indirect and Fixed-Variable Cost Categories. (U)

DESCRIPTIVE NOTE: Special rept. Feb-Jun 76, JUN 76 23P Swope,William M. ;Cordell, Curtis C. ;
REPT. NO. TAEG-TM-76-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Training, *Cost effectiveness, Naval budgets, Cost analysis, Management planning and control, Classification (U)
IDENTIFIERS: Training resources (U)

At the Chief of Naval Education and Training (CNET) sponsored workshop held on 10 and 11 February 1976 to discuss the development of CNET management indices, the workshop participants recognized that ambiguity exists in the definitions used to classify training resources. CNET tasked the Training Analysis and Evaluation Group to investigate the adequacy of current definitions of direct and indirect costs. The four resource cost categories of direct, indirect, fixed, and variable cause the greatest misunderstanding. This memorandum discusses the difficulties encountered when using these classification schemes and offers a set of definitions which attempts to remove the ambiguities associated with their use. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A028 965 17/9 14/1 9/5

RAYTHEON CO HUNTSVILLE ALA EQUIPMENT DI.

Cost Effective Solid State Transmitter Study. (U)

DESCRIPTIVE NOTE: Final rept. Apr 75-Apr 76, JUN 76 151P Soler,Oscar L. ;
CONTRACT: F30602-75-C-0142
PROJ: AF-4506
TASK: '4E0603
MONITOR: RADC TR-76-191

UNCLASSIFIED REPORT

DESCRIPTORS: *Radar transmitters, *Cost effectiveness, Transmitter receivers, Solid state electronics, Modules(Electronics), Cost models, Life cycle costs, Cost analysis, Reliability(Electronics) (U)

Cost models were developed based on the performance and physical characteristics of solid state modules. The cost models are sensitive to power, frequency, bandwidth, device characteristics, noise figure, reliability and quantities. However, they are totally independent of specific configuratio. thus enabling cost estimation of any module configuration, power level, frequency, etc. The models were then used to exam ne cost sensitivity to frequency, power output and cevice junction temperatures. This provided guidelines for cost effective design in terms of power levels and operating junction temperatures. Also developed were estimates of 'dollars per watt' for UHF, L and S bands. Comparable solid state and tube transmitters were postulated at the three bands of interest. The study showed that for certain applications solid state systems are competitive with tubes when total life cycle costs are considered. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A028 951 15/5 14/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Issues and Problems in Life Cycle Costing in DOD Major Systems Acquisition. (U)

DESCRIPTIVE NOTE: Student study rept., NOV 74 35P Reynolds,Jon F. :
PROJ: DSMS-PMC-74-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Program Management Course.
DESCRIPTORS: *Military procurement, *Life cycle costs, *Management planning and control, *Logistics management, Department of Defense, Policies Military planning, Military requirements, Weapon systems, Research management, Cost estimates, Cost analysis, Management engineering (U)

Life cycle costing (LCC) is a widely advocated economic analysis tool and procurement technique in the Department of Defense. However, little information is readily available on the considerable difficulties which exist in implementing or employing LCC as a practical, convenient, everyday tool in defense decision making. This study was undertaken to highlight the weaknesses and limitations of LCC as a means of strengthening it through more enlightened applications and more productive development of LCC methodology. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A028 922 20/1 5/3 14/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Cost Effectiveness of Alternative Noise Reduction Methods for Construction of Family Housing. (U)

DESCRIPTIVE NOTE: Interim rept., JUL 76 92P Schomer,P. D. ;Kessler,F. M. ;Chanaud,R. C. ;Homans,B. L. ;McBryan, J. C. ;
REPT. NO. CERL-IR-N-3
PROJ: DA-4-A-762720-A-896
TASK: 4-A-762720-A-89602

UNCLASSIFIED REPORT

DESCRIPTORS: *Noise reduction, *Housing projects, *Construction, *Cost effectiveness. Residential section, Sound transmission, Construction equipment, Noise pollution, Military engineering, Texas, Charts, Graphs (U)
IDENTIFIERS: Family housing, Noise level, Fort Hood(Texas) (U)

The objective of this work was to obtain the cost/benefit relationships associated with new, quieter construction equipment and/or construction process modification. A workable cost/benefit model was developed for this purpose, but a significantly larger data base must be acquired to apply this model. This initial work effort concentrated on one type of construction-multifamily housing construction. Significant findings included: (1) construction site boundary noise can be significantly reduced by a number of currently available techniques; (2) the use of two quieter machines of lower capacity in lieu of one standard machine not only costs more but is of questionable noise control value, since the total noise exposure is sometimes greater from two machines than from one larger machine; (3) cost/benefit relationships for estimating purposes can be provided only after a significantly larger data base is obtained. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A028 859 14/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Design to Cost Policy Versus Implementation. (U)

DESCRIPTIVE NOTE: Study project rept., NOV 74 66P Sheoard,James Earl :
PROJ: DSMS-PMC-74-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Design to cost, *Cost estimates. Contract administration, Full scale systems. Literature surveys, Trade off analyses, Military procurement, Maintenance (U)
IDENTIFIERS: Program management, Ownership costs (U)

This report chronologically reviews the literature and proponent statements regarding Design to Cost (DTC) since issuance of DODD 5000.1 in July 1971. The report concludes that a basic conflict exists between DODD 5000.1 and current implementation practices. Problem area resulting from this conflict which are identified and discussed are: Softness of the 'Ilities' Area; Initial Cost Estimates of DTC Goals, and; The Impact Upon DTC Goals Resulting From the Contractual Gap Between Full Scale Development and Production. Concepts also discussed from a philosophical point of view are: Results of Design Simplicity; Commercial Practices, and; Design Tradeoffs versus Design Innovation. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A028 854 5/9

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Efficiency Indicators for Education and Training. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 76 58P Lukaszyk,Norbert ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval training, *Cost effectiveness, Efficiency, Courses(Education), Indicators, Costs, Graduates, Theses, Teaching methods (U)

The indicators Staff Student Radio, Cost per Student per Unit Time, and Cost per graduate are discussed with emphasis on the analysis of their properties for the use as indicators for CNET to monitor efficiency of the training establishment both overall, and at different levels. The arguments show that the cost per graduate is the most appropriate indicator for a single course. Methods are derived to determine appropriate methods of aggregation for multiple courses. The derived indicators have the mathematical form of the Laspeyres and Paasch indicators, used in economic theory for the cost of living index. They are applied to 60 courses of SSC San Diego and compared to indicators determined by linear regression based on the same data set. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A028 666 12/1 14/1

FLORIDA UNIV GAINESVILLE

A Round-Trip Location Problem on a Tree Graph. (U)

AUG 74 18P Chan,Albert W. ;Francis, Richard L. ;
CONTRACT: DA-ARO-D-31-124-73-G149
MONITOR: ARO 11521.5-M

UNCLASSIFIED REPORT

Availability: Pub. in Transportation Science v10 p35-51 1976.
SUPPLEMENTARY NOTE: Supersedes Rept. no. RR-74-7 dated Jun 74, AD-782 740.
DESCRIPTORS: *Graphics, *Routing, *Cost analysis, *Range(Distance), *Facilities, Networks, Algorithms, Roads, Reprints (U)
IDENTIFIERS: Round trip, Tree graphs (U)

The problem considered is to locate one new facility with respect to a finite number of pairs of existing facilities on a tree graph, which typically represents a road network, so as to minimize the maximum cost, where costs are linear increasing functions of the round-trip distance a vehicle based at the new facility travels via a pair of existing facilities. Based on an attainable lower bound for the minimax problem, an algorithm is developed that yields all optimal solutions to the problem. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A028 487 5/1 14/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

An Objective Functional Approach to Structuring Contractual Performance Incentives. (U)

DESCRIPTIVE NOTE: Study project rept.,
NOV 75 87P Pirtle,Paul Edward :
PROJ: DSMC-PMC-75-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Contracts, *Life cycle costs, *Contract administration, *Military procurement, Mathematical models, Military requirements, Weapon systems, Acquisition, Costs, Performance(Engineering), Reliability, Negotiations, Cost models, Motivation, Cost analysis, Computerized simulation, Guided missile components (U)
IDENTIFIERS: *Incentive contracts, Availability, Multiple incentive contracts (U)

A method of structuring contractual performance incentives is developed in this report. The method derives the incentive structure directly from the modeled Life Cycle Cost (LCC). The method is illustrated for a hypothetical tactical surface-to-surface missile system and an example is provided of the methods use, at the component level for a single performance parameter, and incorporation into an actual procurement. The method is analysized with existing Multiple Incentive Contracts Analysis Program (MICAP) approaches and a discussion provided. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A028 408 15,5 5/1 5/9 14/2
14/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Management of Special Tooling and Special Test Equipment Acquired on Major Weapon System Acquisition Programs. (U)

DESCRIPTIVE NOTE: Student project rept.,
NOV 74 30P Crouter,John E. :
PROJ: DSMS-PMC-74-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force procurement, *Systems management, *Courses(Education), Test equipment, *Management planning and control, *Tools, *Cost analysis, Data acquisition, Weapon systems, Materiel, Contracts, Logistics management, Reusable equipment (U)
IDENTIFIERS: Program management, Special equipment (U)

This report reviews, summarizes and makes recommendations where improvements are needed in the management of special tooling and special test equipment. The four areas discussed in this report are: (1) Acquisition of data for Special Test Equipment; (2) Improper acquisition of General Purpose Plant Equipment; (3) Special Tooling identification for reuse; and (4) Cost/Benefits from reuse. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A028 407 19/8 14/1 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Design to Cost of Advanced Lightweight Torpedo. (U)

DESCRIPTIVE NOTE: Student project rept., NOV 74 35P Davis,James V. ;
PROJ: DSMS-PMC-74-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Torpedoes, *Design to cost, *Advanced weapons, *Cost estimates, *Management planning and control, Trade off analyses, Lightweight, Antisubmarine warfare, Military budgets (U)
IDENTIFIERS: Management tools, Guidelines, Program management (U)

The purpose of this study exercise has been aimed at determining how the Design-to-Cost principles/goals established by DOD Directive 5000.1 and focused by SECNAVINST 5000.1 are actually applied at the working level in a Navy Project Office. The project studied in this report, The Advanced Lightweight Torpedo (ALWT) was in its conceptual phase, just prior to DCARC 1. The Project Office was in the process of writing a definitive Design-to-Cost Plan, specifically for ALWT, but certainly applicable, if successful, as a guide, to any future project office. While this paper deals almost entirely with the Conceptual Phase application, the ALWT DTC plan speaks to the entire life cycle of the project. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A028 375 5/1 14/2 5/3

STANFORD RESEARCH INST MENLO PARK CALIF

Industrial Management Survey of AFEES Operations. Volume 2. Findings, Conclusions, and Recommendations. (U)

DESCRIPTIVE NOTE: Final rept. Apr-Oct 75, JAN 76 315P Andersen,Dudley G. :
REPT NO. SRI-MSU-4163
CONTRACT: MDA903-75-C-0230

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A028 374.
DESCRIPTORS: *Management planning and control, *Military budgets, *Manpower, *Military planning, *Cost effectiveness, Recruits, Efficiency, Surveys, Military operations (U)
IDENTIFIERS: *Military recruiting stations, AFEES(Armed forces examining and entrance stations), Armed forces examining and entrance stations, Financial planning, Workloads (U)

This report comprises two volumes. This one presents the detailed findings, conclusions, and recommendations developed as a result of this study. The objectives of this study were to evaluate the efficiency and cost-effectiveness of Armed Forces Examining and Entrance Stations (AFEES) operations and to develop recommendations for improvement. An improved manpower planning system was recommended based on formulas developed for relating staff requirements to work load. Cost models were developed for measuring cost performance. The study results in these areas provide AFEES management a coherent system for improved manpower and financial planning, reporting, and control. (U)

AD-A028 374 5/1 14/2 5/3

STANFORD RESEARCH INST MENLO PARK CALIF

Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary. (U)

DESCRIPTIVE NOTE: Final rept. Apr-Oct 75,
JAN 76 18P Andersen,Dudley G. :
REPT. NO. SRI-MSU-4163
CONTRACT: MDA903-75-C-0230

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-A028 375.
DESCRIPTORS: *Management planning and control, *Military budgets, *Manpower, *Military planning, *Cost effectiveness, Recruits, Efficiency, Cost effectiveness, Surveys, Military operations (U)
IDENTIFIERS: AFEES(Armed forces examining and entrance stations), Armed forces examining and entrance stations, Financial planning, Manpower planning system, Workloads, Military recruiting stations (U)

This report comprises two volumes. This one presents highlights of the findings, conclusions, and recommendations developed as a result of this study. The objectives of this study were to evaluate the efficiency and cost-effectiveness of Armed Forces Examining and Entrance Stations (AFEES) operations and to develop a recommendations for improvement. An improved manpower planning system was recommended based on formulas developed for relating staff requirements to work load. Cost models were developed for measuring cost performance. The study results in these areas provide AFEES management a coherent system for improved manpower and financial planning, reporting, and control. The AFEES system was evaluated in terms of its adequacy to meet mobilization requirements and was found to be generally adequate. The role of AFEES in marketing enlistment was evaluated and guidelines were recommended for making a more positive contribution in this area. An examination of the geographic locations of the AFEES was made from the standpoint of cost-effectiveness and a methodology was developed for determining the optimal number and locations of the AFEES. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A028 268 15/5 13/8 14/1

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

An Analysis of the Inflationary Effects on Inventory Systems. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 76 39P Harris,Tyrone :
REPT. NO. DARCOM-ITC-02-08-76-113

UNCLASSIFIED REPORT

DESCRIPTORS: *Inventory control, *Procurement, *Industrial production, *Cost analysis, Optimization, Impact, Numerical analysis (U)
IDENTIFIERS: *Inflation(Economics) (U)

This report was done as a continuation of a study done by Dr. Ram B. Misra, Texas A and M University, on the effects of inflation of different inventory systems such as the lot-size and order-level-lot-size systems. Dr. Misra's study concluded that inflation had some significant effects on certain parameters in the lot-size system. In this study a sensitivity analysis is done for the lot-size, order-level-lot-size, and finite production rate systems. Three numerical examples are used in the analysis and tables and graphs are given illustrating the results of each system. Also in this report, an analysis is done on the effectiveness of the starting solution for the various systems mentioned in arriving at the optimal solution for the lot size. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A028 243 5/3 12/1 15/5

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Competitive Prices, Dynamic Programming under Uncertainty, a Nonstationary Case. (U)

DESCRIPTIVE NOTE: Research rept.,
JUN 76 53P Schechtman,Jack ;
REPT. NO. ORC-76-19
CONTRACT: N00014-76-C-0134, NSF-SOC-75-15566

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost models, *Economic models, *Resources, *Dynamic programming, Depletion, Uncertainty, Storage, Consumption, Production models, Growth(General), Time domain (U)
IDENTIFIERS: Nonrenewable resources, Pricing, Competitive prices (U)

A one-good economy is considered. The good can be used either for consumption or for production. If c units of the good are consumed and x units of the product are put into production, then the society gets u(t) (c) + p(t) (x) units of satisfaction, or utility, and the quantity of the good available in the next period is f(t) (x; w(t)) where w(t) are independent random variables. Using the concept of competitive prices and policies qualitative properties of optimal policies for finite and infinite time horizon problem are obtained. These results have applications to problem of nonrenewable resources, storage problem and economic growth models under uncertainty. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A028 088 5/4 5/3

RAND CORP SANTA MONICA CALIF

The Opportunity Cost of the Nonmonetary Advantages of the Soviet Military R and D Effort. (U)

AUG 75 62P Ofer,Gur ;
REPT. NO. R-1741-DDRE
CONTRACT: DAHC15-72-C-0083

UNCLASSIFIED REPORT

DESCRIPTORS: *Political science, Technology, *Cost analysis, USSR, National security, Research management, Military research, Military budgets, Civilian personnel, Resource management, Comparison, United States Government, Economic warfare (U)

Analyzes the major nonbudgetary advantages enjoyed by the military research and development sector in the Soviet economic system. This analysis also investigates to what extent and in what form such advantages are potentially transferable from the military to the civilian sector, thereby constituting a real economic burden on the Soviet economy. The military R and D sector benefits from a high-powered priority system that overrides the planning network. It receives ample resources and facilities; it has first claim on supplies, specifically produced items and scarce resources. Finally, there are no spillover effects to the civilian economy. This disadvantage stems from secrecy, the need to limit new materials and components and lack of funds to diffuse the achievements of military R and D. This report concludes that the opportunity costs of Soviet military research and development are greater than reflected in the budget, and the investment of so much in military R and D seriously limits R and D in other areas. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A028 019 13/13 5/1

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

A Study of Variability of Construction Cost Estimates. (U)

DESCRIPTIVE NOTE: Final note,
JUL 76 21P Weed,Harrison D. ;
REPT. NO. DRSAR/SA/N-43

UNCLASSIFIED REPORT

DESCRIPTORS: *Construction, *Cost estimates, Contracts, Standard deviation, Mean, Analysis of variance (U)
IDENTIFIERS: *Construction costs, Bids (U)

A study was made of the variability of construction cost estimates based on bids of planned construction projects during the 1971 time frame. Data was obtained from the Office of the Chief Engineer on bids received on 122 planned construction projects during CY 1971 out of a total of 795 such projects. The 122 projects represented planned construction in eight engineering categories of construction cost which had mean bids ranging from 18,000 to 28,000,000 dollars. The mean bid, standard deviation, coefficient of variation and number of bids were destined for each project analyzed in the study. The coefficient of variation (standard deviation/ mean) was studied as related to mean bid size, number of bidders, engineering district, and engineering category. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A027 882 15/5 12/2 5/1

GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS

Minimizing the Cost of Completing a Project Subject to a Bound on the Expected Delay Time. (U)

MAY 76 19P Falk,James E. ;
REPT. NO. Serial-T-336
CONTRACT: N00014-75-C-0729
PROJ: NR-347-020

UNCLASSIFIED REPORT

DESCRIPTORS: *Costs, *Delay, *Management engineering, *Logistics, *Operations research, Optimization, Random variables, Linear systems, Repair, Scheduling (U)
IDENTIFIERS: PERT, Nonconvex optimization (U)

Given a project with well-defined events and activities, suppose the starting times of the activities are subject to random delays. Suppose it is possible to reduce the magnitude of these delays at additional cost. In this paper, we derive an expression for the total expected delay time of the project, and show that it can be expressed as the maximum of a number of linear expressions. To achieve at most a given expected delay time at minimum cost, we are led to examine an optimization problem with an excessively large number of linear constraints. A simple cutting plane algorithm is applied to the problem, yielding a practical method of solution. A non-convex example with five activities is used to illustrate the method. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A027 665 14/1 17/2

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle costing. Appendix G. Cost Uncertainty Analysis Model. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 76 46P Boyd,Eugent T. ;
REPT. NO. TTO-ORT-032-76-V3-AP-G

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3A, AD-A021 938.
DESCRIPTORS: *Cost effectiveness, *Life cycle costs, *Tactical communications, Uncertainty, Fortran, Computer programming, Joint military activities (U)

This appendix presents some of the possible approaches for treating cost uncertainty and to present the approach and model which the TRI-TAC Office uses to augment the methodology for estimating life cycle costs. A Cost Uncertainty Model Program User's Guide and a Cost Uncertainty Model Program are also included. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A027 402 19/3 19/6

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

Cost/Schedule Uncertainty Analysis of the XM1/Alternative Armament Programs. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 76 88P Banash,Robert C. ;Beeson, James B. ;
REPT. NO. DRSAR/SA/R-08

UNCLASSIFIED REPORT

DESCRIPTORS: *Tanks(Combat vehicles), *Weapon systems, *Cost analysis, Scheduling, Cost overruns, Production control, Management planning and control, Risk analysis, Retrofitting, Foreign technology (U)
IDENTIFIERS: M-1 tanks, XM-1 tanks, *Tank guns (U)

A comparison was made of development cost/schedule burdens incurred by adopting either the US 105mm, the UK 110mm or the FRG 120mm armament systems into the US XM-1 Tank Program. These comparisons were made in terms of schedule delays and additional cost to the XM-1 Program. Programs were developed to produce US guns/ammunition from FRG/UK technical data packages. Modifications to the XM-1 Program were structured to account for vehicle redesign phase to accept the FRG/UK systems. Cost and schedule estimates for each program, trat is, US XM-1 with the US 105mm, the UK 110mm and the FRG 120mm armament systems, are presented and compared with the planned XM-1 105mm Program. (U)

AD-A027 365 17/2 14/1 9/2

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Preliminary Cost Analysis of the Communications Processor for the F-15 Joint Tactical Information Distribution System. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 76 87P Gaumer,William Francis :
REPT. NO. GSM/SM/76S-8

UNCLASSIFIED REPORT

DESCRIPTORS: *Command and control systems, *Communication equipment, *Cost analysis, *Data processing, *Tactical data systems, Cost estimates, Minicomputers, Logistics support, Computer program documentation, Jet fighters, Air Force budgets, Tactical communications, Theses (U)
IDENTIFIERS: *Communication processors, Computer software, F-15 aircraft (U)

Budget restraints over the past several years have caused the Department of Defense to take a closer look at the new systems that it requires. Emphasis has been placed on not just the initial cost but the entire life cycle of the system. The Air Force has initiated several studies and projects aimed at reducing the total cost of new aircraft avionic systems. This thesis presents a preliminary analysis of the costs involved in acquiring and supporting a communications processor for the F-15 Joint Tactical Information Distribution System terminal. The characteristics of a digital computer are examined from a historical management perspective as well as the enginering design considerations. Two designs are presented: one is based on the current F-15 central computer while the other is based on current microcomputer technology. The software development and hardware procurement costs are estimated for each design, and the cost impact of the designs on several logistic support costs is also discussed. An analysis of these costs indicates that the microcomputer design would be the least costly of the two designs. (U)

AD-A027 288 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Life Cycle Costing and the Effect of Ownership Costs. (U)

DESCRIPTIVE NOTE: Study project rept..
NOV 75 36P Schumacher,William J. :
PROJ: DSYS-PMC-75-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Cost estimates, Weapon systems, Acquisition, Operation, Logistics support, Manpower, Resource management, Military procurement, Maintenance management, Management information systems, Costs, Data bases, Standardization (U)
IDENTIFIERS: *Ownership costs (U)

The purpose of this study was to examine life cycle costing (LCC) and to determine the effect of ownership (i.e., operating and support) costs on the life cycle cost of a weapon system. Most of the discussion deals with the application of LCC to major system acquisition. This report focuses on the collecting and reporting of ownership costs as well as addressing problems encountered by DOD in collecting ownership cost data and in applying LCC. Despite the significant cost savings demonstrated by LCC procurements, its use has been limited because of the uncertainity of the legal validity of LCC; insufficient emphasis by DOD in training personnel; lack of a reporting system within DOD; and the increased work required in some LCC contracts. Utilizing LCC for estimating the total cost of a weapon system has had even less application because of the inconsistency of lie cycle cost estimates and a lack of cost data by weapon system. While progress has been made in improving cost estimates, collection of ownership costs by weapon system has moved slowly because of the multitude of data systems required and the lack of standard definitions of cost elements. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A026 964 9/2

ELECTRONIC SYSTEMS DIV HANSCOM AFB MASS

Summary Notes of a Government/Industry Software Sizing and Costing Workshop. (U)

OCT 74 61P
REPT. NO. ESD-TR-76-166

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programming, *Costs, *Meetings, Government procurement, Industries, Specifications (U)
IDENTIFIERS: *Computer software (U)

The Government/Industry Software Sizing and Costing Workshop was held on 1 and 2 October 1974 at the Electronic Systems Division (AFSC), Hanscom Air Force Base, Massachusetts. The overall purpose of the workshop was to improve communications between industry and Government on the problems of forecasting software development costs. More specifically, the workshop focused attention on two key questions: (1) What are the attributes of a good software requirements specification; (2) What are the prime factors affecting/driving software c sts. These summary notes present the major points discussed and recommendations made during the splinter group discussions. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A026 944 9/5

MARTIN MARIETTA AEROSPACE ORLANDO FLA

Printed Wiring Board Production Assembly Cost Guidelines Manual. (U)

DESCRIPTIVE NOTE. Final production manual rept. 26 Mar 75-25 Mar 76.
MAR 76 234P Csborne,Sol C. ;Hutchinson, Wendell R. ;Tantaglia,Frederick E. ;
REPT. NO. CR-13826-2
CONTRACT: DAAB07-75-C-0029
PROJ: DA-2759673

UNCLASSIFIED REPORT

DESCRIPTORS: *Printed circuit boards, Cost analysis, Cost models, Production engineering, Automation, State of the art, Manual operation, Costs (U)

Cost forms, cost/manhour data tables and equipment payoff breakeven cost models provided for the user of this manual a direct approach of selecting the lowest cost PWB component assembly method. The comparisons required for solving assembly problems are given on state-of-the-art manual and automatic assembly methods. Formulated assembly and cost guidelines are prov.ded for processes and equipment described for variety of manual and automatic assembly methods. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A026 560 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Useful Life Cycle Cost Estimates for Defense Systems - An Evaluation. (U)

DESCRIPTIVE NOTE: Study project rept.. NOV 75 45P Roberson,Carlton Franklin :
PROJ: DSMS-PMC-75-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Life cycle costs, Decision making, Military procurement, Weapon systems, Department of Defense, Defense planning, Integrated systems, Standardization, Numerical methods and procedures (U)

This study analyzes and evaluates the concept and framework of Life Cycle Cost (LCC) estimate policy, guidance, and methodology efforts within the context of DoD major weapon system acquisition strategy. The analysis considered the general types of LCC estimates, the value of estimates in the decision making process, and the interaction of the OSD Assistant Secretaries and policy councils in LCC policy formulation and implementation. Current DOD publications, staff memoranda, and informal interviews with OSD officials were used as the basis for the analysis and evaluation. The study concludes that the ambiguity of current DoD directives regarding LCC estimate policy, guidance, and methodology responsibility makes it extremely difficult to understnad where the DoD stands today with LCC. Although within OSD an overall LCC plan may exist in conjunction with well understood in-house resoonsibilities, in the opinion of the author it has not been clearly nor consistently promulgated within the whole of DoD. The emergence of a single, comprehensive LCC estimating concept which embodies all phases of weapon system acquisition and ownership does not appear to be forthcoming. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A026 559 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

The U.S. Navy Foreign Military Sales Program. (U)

DESCRIPTIVE NOTE: Study project rept.. NOV 75 41P Vincent,William L. :
PROJ: DSMS-PMC-75-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval procurement, *Cost estimates, *Management, Project personnel, Decision making, Military organizations, Finance, Management information systems, Logistics management, International, Naval vessels, Weapon systems, Acquisition, Overseas, Military forces(Foreign), Navy, Military assistance, Foreign aid (U)
IDENTIFIERS: *Foreign military sales, Naval material command, Program management, International logistics (U)

This study evaluates the organization and procedures presently established to deal with Navy Foreign Military Sales (FMS). It focuses on the program office responsible for implementation of the case and ultimate delivery of the system which has been purchased. The paper, first, describes the Navy's basic organization and how it relates to DOD and State Department Security Assistance Offices. The following section tracks a typical FMS case from receipt of the customers purchase request, through agreement on sale, to final execution of the case. The paper concludes with a discussion of specific issues relating to financial management problems which currently are being evaluated in the Navy. These issues deal with the requirement to price out a proposed sale and how funds are managed after case implementation. Poor price estimates affect relations with the foreign customers and cause considerable administrative difficulties which result in lost time and possibly, financial loss. Recommendations concentrate on the means by which the accuracy and completeness of price estimates can best be achieved. The funds management problem is primarily associated with the sale of ships. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A026 557 5/3 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

Economic Escalation and the Military Program Manager. (U)

DESCRIPTIVE NOTE: Study project rept.,
NOV 75 44P Buckelew ,W. F. ;
PROJ: DSMS-PMC-75-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Inflation(Economics), *Military procurement, *Cost estimates, Weapon systems, Resource management, Project personnel, Allocations, Department of Defense, Mathematical prediction, Errors, Rates, Indexes(Ratios), Forecasting, Management planning and control (U)
IDENTIFIERS: Escalation, Program management (U)

This study investigates the severe impacts which inflation has had on the economic resources available to the Department of Defense and the resulting pressures on the program manager to improve the cost estimates for his program. A large portion of the cost estimating errors for weapon systems were found to be due to errors in the estimation of inflation rates. Recent policies attempt to alleviate this situation by: (1) Emphasizing the importance of the program manager's 'best estimate' for near term predictions: and (2) Using DOD-wide escalation rates to be applied to estimates for out-years. Changes have also been made in reporting formats to highlight the extent of escalation included in cost estimates and the rationale used in arriving at projected inflation rates. The report discusses methods which the program manager has available to predict inflation and some of the terms, concepts and mathematics which he must use. Inflation is likely to continue at high levels and, therefore, the program manager must remain familiar with inflation aspects of his program even though there is little or no specific guidance available to him for accurately predicting inflation rates for his program. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A026 386 5/9 14/1 5/10

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

An Economic Analysis of Lay-Offs. (U)

DESCRIPTIVE NOTE: Student project rept.,
MAY 76 41P Roland,Jay R. ;
PROJ: DSMS-PMC-76-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Unemployment, *Cost effectiveness, *Morale, *Economic analysis, Employee relations, Delay, Scheduling, Procurement, Negotiations (U)
IDENTIFIERS: *Lay off analysis, *Idle employees, Scheduled delays, Reductions of effort, Contingency planning (U)

This study is an investigation into the economics of government contractor lay-offs due to government directed schedule delays or permanent reductions of effort. The topic becomes increasingly important in the dynamic political and business environment in which weapon systems are acquired today. By using the analysis process developed in this study, the program office should be able to plan and execute level of effort delays and reductions in the manner most cost effective to the government. The results show that for both short-term and permanent reductions of personnel, the optimum economic solution is neither to lay off all idle employees or to keep all on the payroll. In most cases there are particular numbers of layoffs that minimize either the government or the combined government-contractor expenses. In general, the best solution will be to minimize the combined expenses and negotiate the cost with the contractor to reduce the government expense. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A026 299 15/5 14/1

RAND CORP SANTA MONICA CALIF

Costs of the Next Due Base-Level Inspection during a Depot Visit. (U)

MAR 76 67P Browning,Thomas H. ;Cohen, I. K. ;Lu,John Y. ;
REPT. NO. R-1865-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: *Logistics support, *Cost estimates, Depots, Jet fighters, Maintenance, Scheduling, Inspection, Preventive maintenance (U)
IDENTIFIERS: Shop maintenance (U)

An outline and illustration of a method for estimating the incremental man-hour costs of doing a base-level inspection during a depot visit as a means to reduce total system costs (base and depot). It is expected that the depot can perform the base-level inspection more economically because the depot performs most of the base-level inspection in conjunction with any Programmed Depot Maintenance (PDM) and Modifications (MOD), and only a small incremental cost would be required to do the few additional tasks needed. This report discusses a simple insight based on depot maintenance procedures which reduces the forecast of the unpredictable workload to a minor problem; the predictable work can be obtained from DART (Daily Automatic Rescheduling Technique). Given an adequate sample of histories to acquire the predictable and unpredicted estimates, the results from the method described are judged to be adequate for decisionmaking. This method, illustrated in this report for the F-4 case, is believed to be applicable to other weapon systems undergoing PDM/MODs at other Air Logistics Centers. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A026 206 17/2 14/1

NAVAL ELECTRONICS LAB CENTER SAN DIEGO CALIF

A-7 ALOFT Life-Cycle Cost and Measures of Effectiveness Models. (U)

DESCRIPTIVE NOTE: Test and evaluation rept. Jul 75-Mar 76.
MAR 76 49P Greenwell,R. A. ;
REPT. NO. NELC-TR-1982
PROJ: W41X1. NELC-F226
TASK: W41X1001

UNCLASSIFIED REPORT

DESCRIPTORS: *Intercommunication systems, *Life cycle costs, *Cost analysis, *Fiber optics transmission lines, Avionics, Attack aircraft, Effectiveness, Performance, Coaxial cables, Optimization, Models (U)
IDENTIFIERS: A-7 aircraft (U)

Economic analyses are being conducted to determine the measure of effectiveness of fiber-optic and coaxial-cable systems for combat aircraft. Participating are the Naval Electronics Laboratory Center, Naval Postgraduate School, and the McDonnell Aircraft Company. The naval activities have developed a Bottoms Up model and McDonnell Aircraft Company has developed a Top Down model. These two models will be utilized to compare and analyze the optimum system in terms of performance and cost. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A025 801 1/3 15/5

AIR FORCE MATERIALS LAB WRIGHT-PATTERSON AFB OHIO

Environmental Effects on Maintenance Costs for Aircraft Equipment. (U)

DESCRIPTIVE NOTE: Final rept. Nov 73-Jan 76,
MAY 76 32P Moore,Thomas K. ;
REPT. NO. AFML-TR-76-31
PROJ: AF-7351
TASK: 735106
MONITOR: GIDEP,GIDEP E060-0665,347.40.00.00-G7-12

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft equipment, *Weathering, *Aircraft maintenance, *Cost analysis, Life cycle costs, Corrosion, Maintenance management, Predictions, Regression analysis, Engine starters, Doppler radar (U)
IDENTIFIERS: *Environmental effects, F-4 aircraft, F-4E aircraft, C-135 aircraft, KC-135 aircraft (U)

A series of mathematical models of the influence of environmental effects on maintenance costs was constructed using linear regression analysis. The equipment whose behavior were modeled were the KC-135 Doppler Radar and the F-4E engine starter. Models explaining more than 20% of the variation in maintenance cost as a result of weather factors were developed, where only the two most current month's weather was considered. Recommendations for further research using more sophisticated model development techniques are presented. A limited economic analysis of some life cycle cost implications of failure countermeasures for increased environmental resistance is given. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A025 276 1/3 15/5

RAND CORP SANTA MONICA CALIF

A Computer Model for Estimating Development and Procurement Costs of Aircraft (DAPCA-III). (U)

MAR 76 94P Boren,H. E. , Jr;
REPT. NO. R-1854-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes rept. no. R-761-PR-abridged, AD-A012 091. See also report dated Feb 76, AD-A022 086 and report dated Mar 74, AD-780 636.
DESCRIPTORS: *Military aircraft, *Air Force procurement, *Cost estimates, Computer programs, FORTRAN, Airframes, Aircraft engines, Avionics, Manufacturing, Engineering, Turbofan engines, Turbojet engines, Cost models, Cost analysis, Logistics management (U)
IDENTIFIERS: FORTRAN 4 programming language, Sensitivity analysis, DAPCA3 computer program (U)

The report describes and lists an updated computer model (DAPCA-III) that computes from parametric relationships the development and procurement costs of two major flyaway subsystems of an aircraft--airframes and engines. Avionics costs are included but are treated as throughputs. Cumulative average, unit, and total flyaway costs are obtained for up to ten specified aircraft production quantities. Flight and avionics procurements are allowed. Although costs of spare engines are not considered to be flyaway costs, they are calculated in the model as additional costs not included in the totals. Unless otherwise specified, all costs are calculated in 1975 dollars. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A025 133 13/8 13/9

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

A Regression Model Predicting Part Costs Machined by Numerically Controlled and Conventional Machinery. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 76 64P Keister,Arlie D. ;
REPT. NO. DARCOM-ITC-02-08-76-216

UNCLASSIFIED REPORT

DESCRIPTORS: *Machine tools, *Automation, *Cost analysis, Machine shop practice, Regression analysis, Production control, Mathematical models, Mathematical prediction (U)
IDENTIFIERS: *Numerical control (U)

A way of determining whether to machine a part by numerical control or conventional methods is needed. This research was made to develop two cost models, one for numerical controlled machining methods and one for conventional machining methods. A comparison of the costs given by the models will determine which machining method is to be used. This report found that although there is a correlation between these costs and the variables used, the models are not accurate for making any decisions regarding which machining method to use. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A025 021 5/1

TEXAS A AND M UNIV COLLEGE STATION INST OF STATISTICS

Incorporating Project Cost Considerations into Stochastic PERT (Project Evaluation and Review Technique). (U)

DESCRIPTIVE NOTE: Thesis optimization research program.
NOV 75 65P Bigman,Paul P. ;Sielken, Robert L., Jr;
REPT. NO. T-EMIS-TR-52
CONTRACT: N00014-68-A-0140
PROJ: NR-047-700

UNCLASSIFIED REPORT

DESCRIPTORS: *PERT, *Costs, *Stochastic processes, Linear programming, Scheduling, Computer programs, Network flows, Algorithms (U)
IDENTIFIERS: *Separable programming, Network analysis(Management), Thesis project (U)

This report extends classical PERT to incorporate both random activity durations and project cost considerations. Project costs include both planned activity costs and penalties for activities exceeding their allowed durations. Several problem formulations are mentioned, and the determination of a minimum cost schedule satisfying a predetermined project deadline is discussed in detail. This latter problem is formulated as a separable programming problem which can be solved by the computer algorithm documented in the appendices. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A025 019 19/1 15/5 13/8

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

Applications of Manufacturing Cost Analysis and Prediction System to the Production of the M13 Tracer. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 76 93P King,Joseph Gerard :
REPT. NO. DARCOM-ITC-02-08-76 222

UNCLASSIFIED REPORT

DESCRIPTORS: *Tracer ammunition, *Manufacturing, *Cost analysis, Production control, Production rate, Production models, Network analysis(Management), Manpower utilization (U)
IDENTIFIERS: M-13 ammunition (U)

Management always has a need for tools which help in the analysis of production process. The Army spends millions of dollars in the production of armaments alone. This research project investigated usefulness of MCAP to a production process at Lone Star Army Ammunition Plant. This report found MCAP to be a promising tool for government route. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A024 818 5/3 5/1

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

Analysis of the Effectiveness of the Preproduction Evaluation Contract in Preventing Cost Overruns. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 76 47P Cone,George N.
REPT. NO. DARCOM-ITC-02-08-76-220

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost overruns, *Contracts, High costs, Statistical analysis, Test methods, Effectiveness, Comparison, Procurement, Methodology, Probability, Cost analysis (U)
IDENTIFIERS: *Preproduction evaluation contracts (U)

This research report examines the cost overrun figures for both PPE and conventional contracts. It compares the cost of the two types of contracts and statistical methods are employed to measure the cost overrun differences between them. The shortcomings of conventional contracting methods are reviewed and the advantages and disadvantages of the PPE concept are discussed. The data revealed significant differences between the two types of contracts examined and recommendations are made as to when the more complex PPE concept is justified. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0#07

AD-A024 749 13/8 14/1

DARCOM INTERN TRAINING CENTER TEXARKANA TEX

Investigation of the Cost/Effectiveness of Numerical Control Manufacture of Quick Reaction Spare Parts. (U)

DESCRIPTIVE NOTE: Final rept..
APR 76 48P Carter,Joe M. :
REPT. NO. DARCOM-ITC-02-08-76-210

UNCLASSIFIED REPORT

DESCRIPTORS: *Spare parts. *Manufacturing. *Cost effectiveness. *Numerical methods and procedures. Control. Production. Quick reaction. Inventory. Lead time. Industrial engineering. Inventory control (U)
IDENTIFIERS: *Numerical control (U)

This investigation is an attempt to determine the amount of inventory cost reduction that can be obtained by utilizing Numerical Control to produce spare parts. It is also an attempt to determine the parts which will produce the most significant savings. Assuming all parameters of the inventory system to be constant, except leadtime, the sensitivity of inventory cost to leadtime is derived. The elements of leadtime and the capability of Numerical Control to reduce each is presented. Significant conclusions drawn are that any reduction in leadtime will reduce inventory cost, but greater savings stem from those parts having higher demand variances. However, the amount of inventory cost reduction can be greatly dampened by a large administrative leadtime. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0#07

AD-A024 556 19/1 5/3 12/1

ARMY ARMAMENT COMMAND ROCK ISLAND ILL COST ANALYSIS DIV

Modified Cost Estimating Model for 20mm - 40mm Automatic Cannon Ammunition Initial Production Facilities. (U)

DESCRIPTIVE NOTE: Technical rept..
APR 76 46P Goodall,James F. :
REPT. NO. DRSAR-CPE-76-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Ammunition. *Cost estimates. *Mathematical models. Costs. Cost analysis. Projectiles. Small arms ammunition. Artillery ammunition. Cartridge cases. Aluminum. Steel. Automatic weapons. High explosive ammunition. Incendiary ammunition. Armor piercing ammunition. Production engineering. Industrial equipment. Tools. Test equipment (U)

A model to provide cost estimates of initial production facilities (IPF) for a 20mm through 40mm steel-case or aluminum-case family of conventional automatic cannon ammunition is presented in this report. The model is intended to facilitate the preparation of independent estimates in support of decision making early in the acquisition phas It represents a modified version of previous models over the same size range developed by HQ. ARMCOM, Cost Analysis Division, in that different costs among alternative rounds of different calibers and/or component dimensions are generated. The differentiating or adjusting process is based on the premise that production equipment capacities are partially or wholly dependent on th magnitude of certain component dimensions that are known or can be assumed in early estimates. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A024 389 5/9

ARMY WAR COLL CARLISLE BARRACKS PA

The Training Division: A Good Investment. (U)

DESCRIPTIVE NOTE: Student essay.
JAN 76 33P Rappl,Norbert J. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Military reserves, *Cost effectiveness, *Military training, Surveys, National defense, Economics, Combat readiness, Public opinion, Investments, Organizations (U)

The Reserve Components have been the subject of much criticism and indeed, there is a genuine question regarding their ability to really perform their mission. However, a study of the history of reserve forces, examination of the laws and regulations governing their organization and training, and an evaluation of past mobilizations, indicates that reserve forces have been vital to the defense of America in the past. Proper utilization will make them a useful and potent force to achieve national goals in the future. This paper discusses one type of reserve unit, the USAR Training Division, its mission, capabilities and potential, together with its demonstrated ability, to illustrate that the training division at least among the reserve components, is a good investment for the American taxpayer. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A024 251 15/5 5/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA COST ANALYSIS GROUP

Air Force Central Supply and Maintenance Cost Data Base FYs 1965-1974. (U)

DESCRIPTIVE NOTE: Final paper.
MAR 76 81P McDonald,Francis L. :
Palatt,Paul E. :
REPT. NO. P-1195
MONITOR: IDA/HQ 76-18368

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force facilities, *Depots, *Cost analysis, *Logistics management, Maintenance, Weapon systems, Airframes, Engines, Accounting, Air Force equipment, Military supplies (U)

The paper presents a historical data base suitable for analysis, covering eleven years of Air Force Central and Maintenance (Program VII) Operations and Maintenance appropriations. Ten years of depot maintenance expenses for major Air Force weapon systems are presented by subsystem (airframe, engine, peculiar accessories, and command accessories) and by type of facility. The data have been normalized to FY 1974 dollars and to the FY 1975 Air Force management, organizational and accounting structures. Adjustments have also been made for expenses incurred to repair weapon systems that required maintenance because of Vietnam crash and battle damage. (U)

AD-A024 140 15/5

GENERAL AMERICAN TRANSPORTATION CORP NILES ILL GENERAL AMERICAN RESEARCH DIV

General Guidance for Cost Analysis of Commercial and Industrial-Type Real Property Maintenance Activities. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 76 540P Kirby,Jeffrey G. ;Kinkley, Michael L. ;Madanoglu,Tuvan ;Henzi,Alan N. ;

CONTRACT: DACA88-74-C-0050
PROJ: RDT/E-4-A-162121-A-891
TASK: 4-A-162121-A-89106
MONITOR: CERL TR-C-68

UNCLASSIFIED REPORT

DESCRIPTORS: *Military facilities, *Army equipment, *Resource management, *Cost analysis, Management planning and control, Specifications, Maintenance, Repair, Industrial equipment, Commercial equipment (U)
IDENTIFIERS: *Real property (U)

This report presents guidance for cost analysis of selected commercial and industrial-type real property operation, maintenance, and repair activities. It is intended for use by Facilities Engineers or their staff. A total of 34 activities, encompassed by 17 functional areas, and ranging from utilities and paved surfaces to pest control services and railroad facilities are included in the scope of this report. The guidance--in the form of reference specifications--includes expanded definitions of the functional areas, definitions of the functional activities, definitions of subfunctions within the activities, discussions of the methods of estimating costs for each subfunction, and tables and worksheets for the cost elements pertaining to each subfunction. Definitions include a statement of scope, and tools, equipment, supplies, materials, and skills required for the performance of the activities and subfunctions. It is expected that this guidance will be used in conjunction with AR 235-5 (Management of Resources Commercial and Industrial Type Functions) in preparing DA Form 3207-R. (U)

AD-A024 014 16/4 9/2 14/1

ARMY WAR COLL CARLISLE BARRACKS PA

Opportunities for Cost Reductions in the Testing of New Missile Systems. (U)

DESCRIPTIVE NOTE: Student essay.
NOV 75 35P Feist,Robert J. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Guided missiles, *Computerized simulation, *Cost effectiveness, Test methods, Mathematical models, Operational effectiveness, Weapon system effectiveness, Costs, Reduction (U)
IDENTIFIERS: *Cost reduction, Hardware in the loop (U)

The basic problem addressed is to identify new testing methods for the Army's new missile systems which can, in the short term, produce at less cost the increased quantities of improved quality test data required by materiel acquisition decision makers. Live trial firings, mathematical modeling and hardware-in-the-loop simulations were examined. Data was gathered from technical reports, Army regulations, staff studies, and personal interviews. The traditional testing method, live trial testing was found to be increasingly costly as the level of system and threat complexity grew. Mathematical modeling provided significant advantages, but the number of live firings required to develop and validate the model approximated the number required by a typical missile system test program in which all the test data was obtained from live firing. The hardware-in-the-loop offered significant advantages to both the developer and the tester. It was found to offer the best opportunities for cost reduction while providing the increased quantities of high quality data required. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A023 881 6/5 5/11 5/3

ARMY WAR COLL CARLISLE BARRACKS PA

A National Health Program. (U)

DESCRIPTIVE NOTE: Student essay.
OCT 75 40P Bryant,Albert ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Medical services, *Insurance, Public health, Legislation, Hospitals, Outpatient clinics, Social welfare, Costs (U)
IDENTIFIERS: *National Health Insurance, Medicare, *Health insurance, *Health care services, *Health care costs (U)

This paper addresses the options and impact of a National Health Program. It suggests what remedies would best solve the steadily accelerating cost of medical care. It points out the weakness of the existing programs. Coverage is devoted to ongoing programs, resources, and actions by Congress, OMB, HEW, VA and DOD. It offers specific directions for the future. The writer concludes that a National Health Insurance Program is needed. Constructive recommendations for the implementation of a National Health Insurance program are presented. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A023 874 9/2 5/10 14/1 5/1

WHARTON SCHOOL OF FINANCE AND COMMERCE PHILADELPHIA PA DEPT OF DECISION SCIENCES (MANAGEMENT)

Data Storage Decisions for Large Data Bases. (U)

DESCRIPTIVE NOTE: Doctor's thesis.
FEB 76 279P Weldon,Jay-Louise ;
REPT. NO. 76-02-04
CONTRACT: N00014-67-A-0216-0007
PROJ: NR-049-272

UNCLASSIFIED REPORT

DESCRIPTORS: *Information systems, *Decision making, *Data bases, *Cost analysis, *Data storage systems, *Information sciences, Computers, Data processing, Configurations, Methodology, Systems analysis, Housing(Dwellings), Population, Data management, Data compression, Performance(Engineering), Theses (U)
IDENTIFIERS: *Data base configuration model, DBCM(Data configuration model), Design, Measures of effectiveness, Decision model (U)

This dissertation presents a systematic methodology for making configuration decisions for large data bases. For each phase of the methodology, informal and operational decision aids are provided. The primary design tool described is an interactive Data Base Configuration Model (DBCM). This model was developed to aid the data base designer in evaluating and comparing the cost and performance of alternative configurations. The methodology is illustrated by its applications to the configuration of a large data base: the 1970 Census of Population and Housing. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A023 836 1/3 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PRAM PROGRAM OFFICE

On High Support Costs and Poor Reliabilities in Air Force Aircraft Equipments. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 76 18P Genet,Russell M. ;Hall,S. Woodrow , Jr;
REPT. NO. ASD/RAXA-76-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Military aircraft, *Aircraft equipment, *Cost analysis, *Logistics management, Logistics support, Costs, Reliability, Air Force procurement, Air Force budgets, Air Force planning (U)

Common statements and opinions about the 'high support costs and poor reliabilities' of items of aircraft equipment are discussed. A distinction is made between statements that are objectively confirmable, at least in theory, and those that must, by their nature, remain forever subjective. For those statements where objective confirmation is possible, the outline of an analytic approach aimed towards reaching such objectivity is offered. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A023 835 1/3 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PRAM PROGRAM OFFICE

Reducing Support Costs and Improving Reliabilities/Availabilities of Air Force Aircraft Equipment. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 76 27P Genet,Russell M. ;Hall,S. Woodrow , Jr.;Spray,Gordon W. ;
REPT. NO. ASD/RAXA-76-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Military aircraft, *Aircraft equipment, *Cost analysis, *Logistics management, Logistics support, Costs, Reliability, Air Force procurement, Air Force budgets, Air Force planning (U)

Common statements and opinions about the 'high support costs and poor reliabilities' of items of equipment are discussed. A distinction is made between statements that are objectively confirmable, at least in theory, and those that must, by their nature, remain forever subjective. For those statements where objective confirmation is possible, an analytic approach aimed towards reaching such objectivity is outlined. Logical remedies for severe cases are suggested. A program for analysis and subsequent actions is outlined. Specific program tasks are deliniated. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A023 834 1/3 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PRAM PROGRAM OFFICE

On the Reduction of Operating and Support Costs of Air Force Aircraft. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 75 20P Genet,Russell M. ;
REPT. NO. ASD/RAXA-76-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Military aircraft, *Air Force procurement, *Costs, Air Force planning, Logistics support, Air Force budgets, Logistics management (U)
IDENTIFIERS: Operating costs, Life cycle costs (U)

Conceptual approaches and difficulties involved in reducing the operating and support costs of Air Force aircraft are discussed. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A023 830 14/3 15/5

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PRAM PROGRAM OFFICE

LCC Analysis of Flight Recorder for F-4 Wild Weasel Aircraft. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 76 7P Weitzler,Thomas D. ;
REPT. NO. ASD/RAXA-76-6

UNCLASSIFIED REPORT

DESCRIPTORS: *Flight recorders, *Cost analysis, Jet fighters, Life cycle costs, Selection (U)
IDENTIFIERS: F-4 aircraft (U)

This report briefly summarizes a basic life cycle cost effort on two flight recorders. It discusses the background, approach, results, and conclusions of the study. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A023 750 13/13 14/1

CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN ILL

Industrialized Building Construction Time/ Cost Model - First Quarter FY 76 Results. (U)

DESCRIPTIVE NOTE: Interim rept., APR 76 31P Poskus,K. K. :
REPT. NO. CERL-IR-D-66
PROJ: DA-4-A-762719-ATA-1
TASK: 4-A-762719-ATA-101

UNCLASSIFIED REPORT

DESCRIPTORS: *Modular construction, *Cost analysis, Prefabrication, Models, Construction, Time, Delivery, Questionnaires, Statistical analysis, Surveys, Housing projects, Prefabricated buildings (U)
IDENTIFIERS: Mobile homes, *Industrialized building (U)

The time/cost project was developed as a means of comparing the cost and delivery time of industrialized building with that of conventional building to form a basis for selecting the best type of facility construction. A new cost-estimating procedure was needed to provide cost estimates for industrialized building without reference to drawings or specifications. This report describes the results of a July 1975 survey administered to a sample of industrialized builders of housing products. The survey was designed to find those variables which could predict differences in the cost and delivery time of housing products. The statistical summaries of the three major types of housing producers (panelized, modular, mobile) are presented, along with tests for the significance of differences in physical plant, production time, and employee characteristics. A followup questionnaire was sent to respondents to clarify confusion in the 'skilled' versus 'unskilled' classification of employees. Since the survey did not contain a sufficient diversity of material types of erection time data to yield the anticipated results, this report discusses the future direction for the project. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A023 530 5/1 15/5

AIR FORCE CONTRACT MAINTENANCE CENTER WICHITA KANS DETACHMENT 21

An Evaluation of Material Cost Escalation Impact on Proposals at Boeing Wichita. (U)

DESCRIPTIVE NOTE: Final rept., NOV 74 70P Ziegler,B. Alan :

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Materials, *Contracts, *Air Force procurement, Inflation(Economics), Cost estimates, Metals, Data processing (U)
IDENTIFIERS: Price indexes (U)

The report presents a study of material escalation factors at the Boeing Company, Wichita Division. The purpose was to set forth recommendations for allowable rates of material cost escalation for proposals submitted to the Air Force Pricing Analysis Division at Det 21, AFCMC (AFLC). The report gives an overview of the contemporary situation and presents a methodology for developing a recommended allowable rate of material cost escalation. Subjects covered include materials usage, material cost indicators, method of analysis (historical data collection, regression, and subjective analysis), data base construction, and a description of the quantitative analysis performed. (U)

AD-A023 442 14/1 12/1

ILLINOIS UNIV AT URBANA-CHAMPAIGN COORDINATED SCIENCE LAB

Performance/Cost Evaluation of Pipelined Cordic Function Units. (U)

DESCRIPTIVE NOTE: Technical rept.,
JAN 76 62P Hughes,Richard James :
REPT. NO. R-707, UILU-ENG-75-2243
CONTRACT: DAAB07-72-C-0259

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Functions(Mathematics), Algorithms, Pipelines, Integrated circuits, Specifications, Arrays, Ratios, Performance (U)
IDENTIFIERS: Trigonometric functions, *Performance cost ratio, Cordic functions, Pipelined systems (U)

To measure the desirability of a function unit, the performance/cost ratio is used. The performance/cost ratio is the number of functions that can be initiated per second divided by the cost of the function unit. The cost is considered to be only the cost of the integrated circuits needed to implement a design. It does not include the cost of the interface, power supplies, circuit boards or wiring. A simple model can be constructed, however, to include these costs. Several types of structures are used to implement the cordic algorithm. (U)

AD-A023 416 1/3 14/2 11/4 11/6

GENERAL DYNAMICS/FORT WORTH TE FORT WORTH DIV

Integration of Hybrid Structure into Low-Cost Aircraft Design - Rationale and Methodology. (U)

DESCRIPTIVE NOTE: Final rept. 1 Dec 74-30 Jun 75.
DEC 75 357P Brents,T E. :Bridges,J. H. .
CONTRACT: F33615-75-C-3029
PROJ: AF-1207
TASK: 120701
MONITOR: AFFDL TR-75-124

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft, *Airframes, *Alloys, *Composite materials, *Low costs, Hybrid systems, Systems engineering, Life cycle costs, Weight reduction, Structural properties, Maintainability, Manufacturing, Metals, Nonmetals, Cost analysis, Base lines, Jet fighters, Methodology (U)
IDENTIFIERS: F-16 aircraft, Epoxy matrix composites, Carbon fiber reinforced plastics, Graphite reinforced composites (U)

IAC ACCESSION NUMBER: MCIC-096312
IAC DOCUMENT TYPE: MCIC -HARD COPY--

This report contains the rationale and methodology for using a blend of advanced metallics and advanced composites in the design of low-cost, low-weight aircraft. A systems engineering approach is developed via an example using a previously designed fighter aircraft as a baseline. The criteria for improvement is low life-cycle-costs for derivatives of the baseline aircraft that meet the specific performance measures. The rationale and methodology displayed pertains to the use of structural materials and associated manufacturing processes for airframe construction. The emphasis is on cost related decisions made during the conceptual design phase. This report contains a description of the salient properties of materials, typical material applications, and a description of the manufacturing processes associated with the materials. The rationale and methodologies described can be used for conceptual design of all types of aircraft. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A023 406 9/2 14

RAND CORP SANTA MONICA CALIF

Privacy Protection in Databanks: Principles and Costs. (U)

SEP 74 23P Turn,Rein :
REPT. NO. P-5296

UNCLASSIFIED REPORT

DESCRIPTORS: *Data processing security, *Data banks, *Cost analysis, Computers, Protective equipment, Protection, Costs, Maintenance, Management planning and control, Cryptography, Computer files, Subroutines (U)
IDENTIFIERS: *Privacy, *Computer information security, *Computer privacy, *Personal privacy (U)

Every databank system that contains identifiable personal information requires adequate procedural and technical means for (1) safeguarding the data subjects' rights; (2) maintaining confidentiality of selected records; (3) preserving data integrity; (4) providing data security against unauthorized access and modification; and (5) assuring compliance with the protection requirements. The specific design of each of the above components of the protection system depends on the purpose and functions of the databank system, the nature of the personal information stored and processed, the applicable statutory requirements, and the structure and capabilities of the computer system associated with the databank. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A023 223 17/2 14/1 15/3 12/2

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix E. Transportation Cost of Spares and Repair Parts. (U)

FEB 75 13P
REPT. NO. TTO-ORT-032-75-Vol-3-app-e

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-A022 062.
DESCRIPTORS: *Tactical communications, *Cost effectiveness, Spare parts, Logistics support, Life cycle costs, Communication equipment, Costs, Joint military activities (U)
IDENTIFIERS: Transportation models (U)

The purpose of the appendix is to present an equation for transportation costs which is sensitive to the weight of the item, the distance traveled and the postulated logistic support concept. The equation is obtained by mathematically combining two models (a) the transportation paths that the spares and failed/repaired items traverse and (b) the probabilities or percentages associated with each of four possible transportation paths. This cost element is concerned only with the transportation of spares, repair parts and failed/repaired items during the operation and support phase of the life cycle of the TRI-TAC systems. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A023 080 1/2 5/3 1/3

ARINC RESEARCH CORP ANNAPOLIS MD

Cost Analysis of Airborne Collision Avoidance Systems (CAS) Concepts. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 75 279P Kowalski,Stanley ;Haspert,J.
Kent ;Witt,James ;
REPT. NO. 1306-01-1-1479
CONTRACT: DOT-FA74WA-3506
MONITOR: FAA-EM 76-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Collision avoidance, Airborne, *Cost analysis, *Aircraft equipment, Aviation accidents, Aircraft equipment, Commercial aviation, Commercial aircraft, Military aircraft, Civil aviation, Life cycle costs, United States Government, Policies, Electronic equipment, Airborne, Installation, Inflation(Economics), Reliability(Electronics), Computer programs, Mathematical models, Feasibility studies (U)
IDENTIFIERS: *Collision avoidance systems, CAS system, Avoids system, EROS system, Secant system, CAS(Collision avoidance systems) (U)

This report presents the results of the cost and operational evaluations developed for three CAS Concepts: the Honeywell AVOIDS, the McDonnell Douglas EROS, and the RCA SECANT. To provide a basis for assessing the economic impact of CAS on the various aviation communities, separate cost evaluations have also been developed for general aviation, commercial aviation, and the military. This report presents the expected cost of ownership to the individual aircraft owner and the cumulative life-cycle costs to the user communities, based on the competing manufacturers' data and independently developed electronics and installation cost data. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A022 794 5/3 9/2

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO

Historical and Forecasted Aeronautical Cost Indices. (U)

DESCRIPTIVE NOTE: Final rept..
JUN 74 55P Lentzsch,Craig ;Bandt,
William D. ;
REPT. NO. ASD-Cost research-110a-rev

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Revision of report dated May 73.
DESCRIPTORS: *Cost estimates, *Indexes, *Computer aided instruction, Forecasting, Air Force procurement, Avionics, Aircraft equipment, Linear regression analyses, Forecasting, Graphics (U)
IDENTIFIERS: Gross National Products (U)

This report presents both historic and forecasted aerospace cost indices for cost estimators at the Aeronautical Systems Division, Wright-Patterson AFB, Ohio. Utilizing both Bureau of Labor Statistics and ASD Cost Library data, historical cost indices for six segments of the aerospace industry were developed. The segments are airframe development, airframe production, engine development, engine production, avionics development and avionics production. These data are applicable to ASD programs from 1958 to 1972 and provide one input into the forecasting of future indices for these segments. The forecasts cover the ten-year period, 1973 through 1982. The historical data was correlated with the history of the GNP deflator and this exercise was combined with the Wharton Econometric Forecasting Unit predictions of the GNP deflator for the next ten years to produce the forecasted numbers. Instructive examples of the use of these indices in constructing escalation factors and then in the use of these factors to adjust cost estimates are presented. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A022 793 5/3 9/2

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO

A Cost Performance Forecasting Concept and Model. (U)

DESCRIPTIVE NOTE: Final rept.,
NOV 74 50P Karsch,O. Arthur :
REPT. NO. ASD-Cost Research-117

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Computer programs, Forecasting, Computer aided instruction, Statistical samples, Cost analysis, Linear regression analyses, Cost models, Subroutines (U)

This report identifies and illustrates the principles of a new and potentially valuable cost forecasting method. It is the objective of the technique to forecast Estimates At Completion (EACs) each month, utilizing data available in the Cost Performance Reports (CPRs). A single sample was used as a uniform data base for comparing the consequences of various methods. These methods are the linear extrapolation of percent cumulative cost variance and unconstrained and constrained regression analysis applied to an exponential relationship. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A022 792 5/3 9/2

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO

Computer Program Input Instructions for Cost Performance Forecasting Model. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 75 24P Karsch,O. Arthur :
REPT. NO. ASD-Cost Research-117A

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programs, *Cost estimates, *Computer aided instruction, Input output devices, Cost models, Subroutines, Forecasting, Punched cards, Keyboards (U)

The Computer program is intended for use in developing independent Estimates at Completion (EACs) for ongoing projects/programs. The information contained in this paper is intended to provide the program user a set of simplified key punch instructions. These instructions plus a minimum knowledge of Fortran would enable the user to input the program. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A022 789 6/5 5/9 14/1

BOEING COMPUTER SERVICES INC SEATTLE WASH THE CONSULTING DIV

Navy Medical Care Study: Alternatives to a Physician Shortfall. (U)

DESCRIPTIVE NOTE: Rept. for Sep 74-Mar 75.
MAR 75 114P Waggoner,John J. ;Rahm, Michael ;Powell,John H. , Jr;
CONTRACT: N00014-73-C-0341

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD782 569, AD-782 571 and AD-A022 788.
DESCRIPTORS: *Medical services, *Manpower, *Cost analysis, *Medical personnel, Navy, Physicians, Shortages, Naval planning, Personnel management, Naval budgets, Allocations, Resource management, Military medicine, Health care facilities, Economic analysis, Insurance, All volunteer, Naval personnel, Military dependents, Civilian personnel (U)
IDENTIFIERS: Workloads, Health insurance, CHAMPUS(Civilian health and medical program of the uniformed forces), Civilian health and medical program of the uniformed forces, Resource allocation (U)

The probable magnitude of a shortfall of Navy physicians below programmed strength is analyzed. Alternative methods of providing medical care under shortfall conditions are examined for feasibility. Cost analysis is performed on feasible alternatives. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD-A022 788 6/5 14/1 5/9

BOEING COMPUTER SERVICES INC SEATTLE WASH THE CONSULTING DIV

Navy Medical Care Study: Planning and Programming. (U)

DESCRIPTIVE NOTE: Rept. for Jan-Aug 74.
AUG 74 115P Waggoner,John J. ;McCarty, Ken W. ;
CONTRACT: N00014-73-C-0341

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Appendices dated Aug 74. AD-A022 789.
DESCRIPTORS: *Medical services, *Cost analysis, *Manpower, *Medical personnel, Military medicine, Navy, Health care facilities, Insurance, Economic analysis, Regression analysis, Naval planning, Naval budgets, Job analysis, Mathematical prediction, Dentists, Physicians, Resource management, Patients, Dentistry, Surgery, Naval personnel, Civilian personnel, Military dependents, Demography (U)
IDENTIFIERS: Workloads, Surgeons, CHAMPUS(Civilian health and medical program of the uniformed services), Civilian health and medical program of the uniformed services, Health insurance, *Health care costs (U)

The relationship between the size and composition of beneficiary populations and output levels is analyzed in detail. The results indicate that workload projections can be made accurately based on the size and growth of different population segments. Further cost analysis is performed to determine the total and marginal costs of medical care applicable to various program elements and appropriation categories. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A022 787 6/5 14/1 5/9

BOEING COMPUTER SERVICES INC SEATTLE WASH THE CONSULTING DIV

Navy Medical Care Study. Planning and Programming. Appendices. (U)

DESCRIPTIVE NOTE: Final rept. for period ending Aug 74.
AUG 74 130P Waggoner,John J. ;McCarty, Ken W. ;
CONTRACT: N00014-73-C-0341

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Appendices to report dated Aug 74, AD-A022 788.
DESCRIPTORS: *Medical services, *Cost analysis, *Manpower, Medical personnel, Military medicine, Navy, Health care facilities, Insurance, Economic analysis, Regression analysis, Naval planning, Naval budgets, Resource management, Mathematical prediction, Naval personnel, All volunteer, Civilian personnel, Military dependents, Retirement(Personnel), Active duty, Demography, Statistical data (U)
IDENTIFIERS: CHAMPUS(Civilian health and medical program of the uniformed forces), Civilian health and medical program of the uniformed forces, Health insurance (U)

Contents: Explanation of Analytical Techniques Used to Quantify Cost Behavior -- Regression analysis, Cost behavior models, Data sources, and Results and interpretion: Navy Health Care Beneficiary Populations: Cost of Retirement; Bumed's Expense Operating Budget Structure; EOB Expense Data by WIC and Cost Center; and Expense By Program Element UIC and Appropriation Category. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A022 311 13/10 14/1

NAVAL SHIP ENGINEERING CENTER HYATTSVILLE MD

Marginal Cost Factors for Surface Combatant Ships. (U)

MAR 76 41P Howell,Jay Stanley , Jr.; Graham,Clark ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Annual Technical Symposium (13th), Association of Scientists and Engineers of the Naval Air and Sea Systems Commands, 12 Mar 76, Arlington, Va.
DESCRIPTORS: *Naval vessels, *Cost analysis, *Surface ships, Computerized simulation, Marine engineering, Weighting functions, Variations, Weapons, Space(Room), Cruisers, Destroyers, Frigates, Electronic equipment (U)
IDENTIFIERS: *Marginal costs, Design (U)

The concept of utilizing marginal cost factors to determine the overall ship impact of design features is examined. The assumption is made that the design parameters for a feature such as the addition of a piece of equipment can be broken down into requirements for weight, space, manning and electrical power and that these requirements are linearly superimposable. Marginal weight factors in terms of changes in ship displacement were generated utilizing a computerized ship synthesis model. The validity of utilizing marginal weight factors to predict the overall weight impact on a ship was confirmed through a comparison with weight impact predicted directly by the synthesis model. The overall conclusion of the study was that the concept of marginal cost factors is valid for predicting the impact of design changes on naval ships. However, a considerable amount of work remains before the technique can be universally implemented throughout the design community. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A022 307 14/2 14/1 5/9

NAVAL MATERIAL COMMAND WASHINGTON D C

Automatic Testing. A Tool for Improving Fleet Readiness. (U)

MAR 76 17P Neumann,George W. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Annual Technical Symposium (13th), Association of Scientists and Engineers of the Naval Air and Sea Systems Commands, 12 Mar 76, Arlington, Va.
DESCRIPTORS: *Test equipment, *Cost analysis, *Automation, *Manpower, Automatic, Fleets(Ships), Operational readiness, Reduction, Costs, Environments, Monitors, Minicomputers, Standardization, Microprocessors, Reliability (U)
IDENTIFIERS: ATE(Automatic Test Equipment), Automatic test equipment, Self test equipment, Built in test equipment (U)

During the last few years the realization that automatic testing is a convenient tool for reducing manpower and costs has become apparent. However, if the application of automation is not properly done, the end result can acutally increase costs and cause many other problems. This paper discusses Navy problems in automatic testing and some remedies. Included will be a discussion of the following topics: (1) An RDT and E program for development of automated testing techniques; (2) Selection and acquisition of the proper Automatic Test Equipment (ATE) (i.e. built-in, special purpose, general purpose, self-test); (3) Problems in acquiring ATE software; (4) Standardization of ATE; and (5) Description of available organizations, tools and aids to assist in acquiring and applying ATE (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A022 296 18/9

RAND CORP SANTA MONICA CALIF

Comments on LMFBR Cost-Benefit Analysis (U)

AUG 75 22P Alexander,Arthur J. :Rice, Donald B. :

REPT. NO. P-5496

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Liquid Metal Fast Breeder Reactor program.
DESCRIPTORS: *Breeder reactors, *Cost benefits, Learning curves, Decision making (U)
IDENTIFIERS: *Liquid metal fast breeder reactors, *Benefit cost analysis (U)

This review of the cost-benefit analysis of the LMFBR is in three sections, each of which looks at the issue from a somewhat different perspective. The first section examines several of the most important assumptions and detailed projections which underlie the analysis. Section II reviews the role of cost-benefit analysis as a tool for decisionmaking in the LMFBR case, based on the analysis contained in the PFEIS and on the modifications suggested by our review. Based on a synthesis of these findings, the third section suggests some guides for future policy. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A022 195 14/1 5/3

RAND CORP SANTA MONICA CALIF

A Critique of Cost-Effectiveness. (U)

NOV 75 9P Quade,E. S. :
REPT. NO. P-5524

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the session on Cost-Effectiveness, ORSA/TIMS. 17 Nov 75. Las Vegas. Nev.
DESCRIPTORS: *Cost effectiveness. *Economics. Cost analysis, Decision making. Deficiencies. Economic analysis. Methodology. Comparison. Assessment. Cost benefits (U)

It is important that a decision take into account all the relevant information whether or not this information lends itself to inclusion in formal analysis. All forms of analysis have their virtues and drawbacks. None can take into consideration or present all the information. A single cost-effectiveness calculation leaves out a great deal but it does emphasize the aspects that are usually the most important and of greatest interest to the decisionmaker. It gives excellent results provided the alternatives are reasonably similar and seek the ultimate goal through the same target so that their effectiveness in attaining that target can be measured on the same scale. Cost-benefit analysis can take into account many more aspects of a decision but it does so at the expense of emphasis and through a great deal of heroic quantification that is extremely arbitrary and, where values are concerned, is based on the judgment of the wrong people. Multiple cost-effectiveness calculations, including some that do not translate all costs into monetary units obviously go farther in taking things into account than the traditional single comparison that we often think of when we say cost-effectiveness analysis. It has the additional advantage that it not only forces the judgment on the right people but calls their attention to which judgments are needed.(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A022 191 5/3 5/1

RAND CORP SANTA MONICA CALIF

Cost Considerations in Policy Analysis. (U)

NOV 75 12P Fisher,G. H. :
REPT. NO. P-5534

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Cost Analysis Techniques in Operations Research session of the National ORSA/TIMS. 17 Nov 75. Las Vegas. Nev.
DESCRIPTORS: *Cost analysis. *Policies. Cost benefits. Cost estimates. Efficiency. Effectiveness. Management planning and control. Economics. Decision making (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A022 115 15/3 15/5 5/9

OPERATIONS RESEARCH INC SILVER SPRING MD

Naval Reserve Annual Operating Costs. (U)

DESCRIPTIVE NOTE: Final rept 16 Aug 74-30 Jun 75.
OCT 75 234P Mason,Robert T. ;Daniels,
Parmely M. ;McDermott,Michael N. ;
REPT. NO. ORI-TR-932
CONTRACT: N00014-75-C-0086
PROJ: NR-043-194

UNCLASSIFIED REPORT

DESCRIPTORS: *Military reserves, *Navy, *Cost estimates, Naval operations, Maintenance, Naval personnel, Naval logistics, Logistics support, Naval research, Mathematical models (U)
IDENTIFIERS: Cost models (U)

The report describes an analytical study effort conducted by Operations Research, Inc. (ORI) aimed at enhancing the Navy Resource Model (NARM) with respect to its ability to generate estimates of the costs associated with the Naval Reserve. There are two general products resulting from ORI's endeavors: (1) Information concerning the numbers, types, and composition of all of the various units in the Naval Reserve: equations for generating estimates of personnel costs, hardware costs, and support costs; and suggested report formats for displaying the costs of the Naval Reserve by program element and Naval Reserve program. (2) A computerized model which rapidly and consistently generates: (a) RPN 'factors' that consider the number of authorized paid drills, and (b) estimates of the RPN budget which consider the units' manning. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A022 086 1/3 14/1 12/1

RAND CORP SANTA MONICA CALIF

Parametric Equations for Estimating Aircraft Airframe Costs. (U)

DESCRIPTIVE NOTE: Interim rept.,
FEB 76 154P Large,Joseph P. ;Campbell,
Harry G. ;Cates,David ;
REPT. NO. R-1693-1-PA/E
CONTRACT: DAHC15-71-C-0220

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supplement to report dated May 75. AD-A013 258.
DESCRIPTORS: *Cost estimates, *Airframes, *Equations, Aircraft, Costs, Flight testing, Data acquisition, Quality control, Manufacturing, Manhours, Weight, Time, Prototypes, Regression analysis, Labor (U)
IDENTIFIERS: *Parametric equations, Tooling (U)

A set of generalized equations for estimating development and production costs of aircraft airframes on the basis of such characteristics as aircraft weight and speed. (Extensive investigation has shown that these characteristics explain cost variations better than any other objective parameters.) Equations derived by multiple-regression techniques are presented for each of the major cost elements, for total program cost, and for prototype development costs. The report explains the derivation of each equation and describes the treatment of the data, the fitting of regression equations, and selection of preferred equations. A detailed numerical example is included which applies to preferred equations and compares the results to those obtained using several sets of alternative equations. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A021 944 5/9 5/1

AIR FORCE ACADEMY COLO

The Deterioration of Pension Plan Conditions in Large Corporations: The Need for More Extensive Disclosure. (U)

DESCRIPTIVE NOTE. Final rept.,
FEB 76 32P Fletcher,John C. ;Wilcox, Kirkland A. ;
REPT. NO. USAFA-TR-76-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Retirement(Personnel), *Corporations, *Cost analysis, Fringe benefits, Difficulty, Accounting, Legislation, Statistical data, Modification (U)
IDENTIFIERS: *Pensions, Economic surveys (U)

This paper describes a field study undertaken to determine the significance of pension plans. Recent deterioration in the conditions of selected plans and the need for more extensive disclosure are discussed. The results of a questionnaire survey are analyzed. A new disclosure format is recommended. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A021 913 14/1 20/6 1/3 9/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The A-7 ALOFT Cost Model: A Study of High Technology Cost Estimating. (U)

DESCRIPTIVE NOTE: Master's thesis.
DEC 75 271P Johnson,Donald Lloyd ; Knobloch,Earle William ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Fiber optics, *Cost estimates, Economic analysis, Technology, Mathematical models, Naval planning, Circuit interconnections, Avionics, Cost analysis, Attack bombers, Navigation, Aircraft fire control systems, Comparison, Coaxial cables, Data links, Delphi techniques, Economic models, Forecasting, Uncertainty, Theses (U)
IDENTIFIERS: ALOFT(Airborne Light Optical Fiber Technology), Airborne light optical fiber technology, A-7 aircraft (U)

This analytical study contains the development of an appropriate life cycle cost (LCC) model for the A-7 Airborne Light Optical Fiber Technology (ALOFT) system. The model was developed to support an A-7 ALOFT economic analysis which will compare the total systems costs and performance benefits of an A-7 fiber optic linked navigation and weapons delivery system to existing or proposed wire interconnect designs. Major features of this study include the development of: (1) A process to derive cost estimates of a high technological development in the early conceptual stage; (2) An appropriate LCC model for the A-7 ALOFT economic analysis; and (3) Fiber optic costing methodology to support the LCC analysis. This analysis is a follow-on study to An Approach to the Estimation of Life Cycle Costs of a Fiber Optic Application in Military Aircraft AD-A019 379. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A021 900 14/1 15/3

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Army Life Cycle Cost Model; User's Guide. Volume I. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 76 129P Brannon,Richard C. ;
REPT. NO. DCA-R-15-Vol-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Life cycle costs, *Cost estimates, *Weapon systems, *Army procurement, Computerized simulation, Cost analysis, Time sharing, Cost effectiveness, Parametric analysis, Army equipment, Costs, Inflation(Economics), Army planning, Army budgets, Trade off analyses, Input output processing (U)

This document describes the Army Life Cycle Cost Model, a time sharing cost model which produces both static and time phased parametric cost estimates for major weapons systems. The output reports conform to the latest Research and Development, Investment, and Operating and Support pamphlets. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A021 740 17/2 14/1

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume IA. Management Overview. (U)

DESCRIPTIVE NOTE: Final rept.
NOV 75 28P
REPT. NO. TTC-ORT-032-75-Vol-1-A

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Revision of report dated Dec 73. See also Volume 2, AD-A003 279.
DESCRIPTORS: *Tactical communications, *Cost effectiveness, Trade off analyses, Life cycle costs, Joint military activities Logistics support, Planning (U)

The report presents an overview for management purposes of a program to develop and implement concepts of cost effectiveness analysis to be used for architectural design, integrated logistic support, economic analyses, and equipment program trade-off studies involved in the development and acquisition of joint tactical communication systems, subsystems, and equipment. The fundamental concepts used for estimating life cycle costs and measures of effectiveness of TRI-TAC development and acquisition programs are briefly described. The report also presents a plan of action involving the Services/Agencies which is necessary to implement these cost effectiveness concepts and methodologies. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A021 717 15/5 5/1

DARCOM INVENTORY RESEARCH OFFICE PHILADELPHIA PA

Inventory Costs at US Army Materiel Command Depots. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 75 30P Deemer,Robert L. :
REPT. NO. IRO-235

UNCLASSIFIED REPORT

DESCRIPTORS: *Supply depots, *Logistics management, *Cost analysis, *Inventory control, Army budgets, Army procurement, Army planning, Storage, Inventory, Inventory analysis, Tables(Data), Regression analysis, Equations (U)

The holding cost rate and the cost of ordering stock from the Inventory Control Points are estimated as they apply to supply management activities of the Installation Supply Accounts of the AMC Depots. These costs are used to compute the inventory levels for the Economic Inventory Procedure Tables of AR 710-2 that are used by the depots. The costs are composed of several constituent functions which are the dependent variables in a regression analysis. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A021 712 13/8 14/1 5/4 9/2

RAND CORP SANTA MONICA CALIF

Measurement of Technological Innovation by Firms. (U)

SEP 75 30P Harman,Alvin J. :
REPT. NO. P-5496

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Econometric Society World Congress (3rd), Aug 75, Toronto (Ontario).
DESCRIPTORS: *Quality control, *Computers, *Machine tool industry, *Cost effectiveness, *Economic models, Industrial production, Creativity, Technology, Economics, Scientific research (U)
IDENTIFIERS: *Technological change, *Product improvement, *Cost reduction, *Technological innovation, *Econometrics (U)

The specific objective of this paper is to describe the preliminary results of our theoretical model development and our approach to measuring product quality change in the computer and machine tool industries. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A021 263 14/4 1/3 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Evaluation of F-16 Subsystem Options Through the Use of Mission Completion Success Probability and Designing to System Performance/Cost Models. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 75 255P Doman,Allan M. ;Dunkerley, Alan G. ;
REPT. NO. GSM/SM/75D-13

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
DESCRIPTORS: *Jet fighters, *Reliability, *Cost estimates, *Air Force procurement, Failure, Probability, Mission profiles, Abort, Cost analysis, Logistics management, Design to cost, Mathematical models, Maintainability, Theses (U)
IDENTIFIERS: Cost models, Life cycle costs, F-16 aircraft (U)

The Mission Completion Success Probability (MCSP) and Designing to System Performance/Cost (DSPC) models developed by the Office of the Assistant for Study Support provide the program manager with a quantitative method of analysis to aid in reliability management. The MCSP model calculates the probability of mission completion without an abort-causing failure of a subsystem. In addition, it produces a ranking of subsystems identifying those most likely to cause aborts, and performs a sensitivity analysis on non-redundant subsystems. The DSPC model analyzes combinations of subsystem options to define those options which lead to a higher MCSP at lower cost. Various optimal configurations are presented, allowing trade-offs of MCSP for different acquisition costs, logistic support costs, or total costs. When combined with the MCSP results, the DSPC model extends the methodology for applications to life cycle cost analysis. (U)

AD-A021 263 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A021 258 15/5 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Evaluation of F-15 Operations and Maintenance Costs Based on Analysis of Category II Test Program Maintenance Data. (U)

DESCRIPTIVE NOTE: Master's thesis.
AUG 75 179P Howard,Christopher B. :
REPT. NO. GSM/SM/75S-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Jet fighters, *Cost analysis, *Maintenance, Regression analysis, Failure, Reliability, Mathematical models, Cost estimates, Air Force procurement, Theses (U)
IDENTIFIERS: Cost models, Life cycle costs, F-15 aircraft (U)

The report contains an analysis of the maintenance data collected as part of the F-15 Category II test program from April 1974 through February 1975 with the intent of updating operations and maintenance cost predictions. A brief review of the Systems Effectiveness Data System is included to provide background on the source of the raw maintenance data. This is followed by an analysis of maintenance man-hours per flight hour (MMH/FH) trends based on regression analysis to determine the expected operational maintenance requirements. Failure data are analyzed to determine system and subsystems reliability. Two reliability models are used for this analysis: an exponential model which assumes a constant instantaneous failure rate, and a Weibull model which can represent either an increasing or a decreasing failure rate. (U)

AD-A021 258 UNCLASSIFIED Z0M07

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A021 210 13/10

ARCTEC INC COLUMBIA MD

Winter Rate Study for Great Lakes-St. Lawrence Seaway System. Volume I. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 75 123P Kotras,T. ;Peter,J. ;
REPT. NO. 00246-C-3
CONTRACT: DACW23-75-C-0043

UNCLASSIFIED REPORT

DESCRIPTORS: *Inland waterways, *Ice formation, *Marine transportation, *Cost analysis, Winter, Shipping, Rates, Time studies, Great Lakes, Computer programming (U)
IDENTIFIERS: *Ice navigation, *Saint Lawrence Waterway (U)

This study is phase 2, part B of the Great Lakes-St. Lawrence Seaway Navigation System Study. Objectives were twofold: (1) to estimate total transit time for ships navigating the Great Lakes-St. Lawrence Seaway system during a winter season and translate these times into vessel operating costs and annual freight rates for major commodity routes, and (2) to estimate effect on these annual freight rates of improvement levels, length of navigation season, winter severity, and vessel fleet mix. A computer model of Great Lakes-St. Lawrence Seaway was developed. It was concluded that all-year navigation on the Great Lakes-St. Lawrence Seaway is commercially feasible. Annual freight rates would decrease for laker bulk cargo routes, but increase for overseas routes. Ships which would benefit most from season extension would be the larger, more powerful and more economical ships. Contractor recommends that the overall Great Lakes-St. Lawrence Seaway system model planned for Phase 3 of this study be developed. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A021 115 15/5 9/2

BATTELLE COLUMBUS LABS OHIO

Definition of a Systematic Cost- and Logistics-Effectiveness (Scale) Procedure. (U)

DESCRIPTIVE NOTE: Final rept. 1 Jul-3 Nov 75.
JAN 76 110P Cork,Thomas R. ;Welp,David W. ;
CONTRACT: F33601-75-90373
MONITOR: AFLC 75-16

UNCLASSIFIED REPOR.

DESCRIPTORS: *Logistics management, *Computer applications, Management information systems, Management planning and control, Logistics planning, Cost analysis, Life cycle costs, Data management, Bibliographies, On line systems (U)
IDENTIFIERS: *Cost models, *Life cycle management, *On line interactive systems (U)

A Systematic Cost- and Logistics-Effectiveness (SCALE) procedure is defined in this report. The objectives of this brief study were to define the concept of SCALE, review available logistics support computer models, propose an initial family of models, and postulate how the SCALE procedure can be used. The SCALE concept calls for the use of available support cost, support activity simulation, and mission performance computer models in an interactive framework. Five U.S. Air Force models (LSC, MOD-METRIC, ORLA, L-COM, and AEP) and two U.S. Army models (GEMM and LOCAM4) are proposed to form the basis for an initial SCALE family of models. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A021 083 21/5 14/1

PURDUE UNIV LAFAYETTE IND SCHOOL OF AERONAUTICS ASTRONAUTICS AND ENGINEERING SCIENCES

Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model. (U)

DESCRIPTIVE NOTE: Final rept. 26 Feb-1 Oct 75,
OCT 75 126P Drake,John W. ;Reda, Mostafa R. ;Allen,James J. , Jr;
REPT. NO. 75-2
CONTRACT: F33615-74-C-2014
PROJ: AF-3145
TASK: 314532
MONITOR: AFAPL TR-75-88-Pt-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Phase 1, Rept. no. 74-1, AD-A021 075.
DESCRIPTORS: *Turbojet engines, *Jet engines, *Costs, *Cost estimates, Regression analysis, Computerized simulation, Programming languages, Computer programs, Manufacturing, Production, Turbine parts, Disks (U)
IDENTIFIERS: J-69-T-25 engines (U)

This report describes two methods of estimating the production costs of jet engines not yet built: (1) By building up the costs of the 'cost driving' parts in a traditional Industrial Engineering fashion and (2) By using regression techniques to estimate either entire engine costs (RAND approach) or parts of engines. The report concludes that both methods are feasible though the former has a greater theoretical accuracy. Potential problems of accounting for changes in performance and schedule may well give the second method the edge in practical application on the bases of cost, speed and speed of implementation. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A021 075 21/5

PURDUE UNIV LAFAYETTE IND SCHOOL OF AERONAUTICS ASTRONAUTICS AND ENGINEERING SCIENCES

Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model, Phase I. (U)

DESCRIPTIVE NOTE: Final rept. 9 Sep 74-31 Dec 74,
OCT 75 64P Drake,John W. ;Reda, Mostafa R. ;Allen,James J. , Jr;
REPT. NO. AA/ES-74-1
CONTRACT: F33615-74-C-2014
PROJ: AF-3145
TASK: 314532
MONITOR: AFAPL TR-75-88-Pt-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Jet engines, *Production engineering, *Cost analysis, Manufacturing, Cost estimates, Data bases, Computer programming, FORTRAN, Programming languages, Jet aircraft (U)
IDENTIFIERS: TRAC programming language, APL programming language, PL/1 programming language, LISP programming language, SNOBOL programming language, BASIC programming language (U)

This report describes two methods of estimating the production costs of jet engines not yet built: (1) By building up the costs of the 'cost driving' parts in a traditional Industrial Engineering fashion and (2) By using regression techniques to estimate either entire engine costs (RAND approach) or parts of engines. The report concludes that both methods are feasible though the former has a greater theoretical accuracy. Potential problems of accounting for changes in performance and schedule may well give the second method the edge in practical application on the bases of cost, speed and speed of implementation. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A020 960 13/8 5/3

MARTIN MARIETTA AEROSPACE ORLANDO FLA

PWB Production Assembly Cost Guidelines. (U)

DESCRIPTIVE NOTE: Final quarterly progress rept. 1 Aug-31 Dec 75,
DEC 75 105P Osborne,Sol C. ;Hutchinson, Wendell R. ;Tartaglia,Frederick E. :
REPT. NO. GR-13826-1
CONTRACT: DAAB07-75-C-0029

UNCLASSIFIED REPORT

DESCRIPTORS: *Assembly, *Automation, *Costs, *Machines, Trade off analyses, Manual operation, Digital systems, Magnetic tape, Circuit boards, Optical target designators (U)
IDENTIFIERS: *Automatic assembly, *Numerical control indicator, Manual assembly, Numerical control'ed machines (U)

Work is continuing on the preparation of the PWB Production Assembly Cost Guidelines Manual to provide guidelines to enable users to select and evaluate manual and automatic assembly methods. The section on assembly techniques has been completed. This includes description of assembly procedures, manual working to drawings, to visual aids, and manual to programmed assembly equipment, NCI. Also included are computer/NC tape controlled machines used separately and as part of a machine assembly system. Equipment specifications have been formulated, two of which are included in this Quarterly Report. Also, standard performance time tables have been expanded and put into final form. Assembly cost analysis, though completed and reported in the first quaterly report, has been further simplified as part of the cost forms section. Improved forms have been included because of their close relationship with this section for review and comment. Design for automation analysis, not previously reported, is included in its entirety in its near completed state to permit a comprehensive overview. Design for automation is presented in network format from original circuit design and component selection to basic board artwork, to packaging, and to final assembly. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A020 669 5/3 1/3

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Historical Inflation Program. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 76 37P Lilge,Ralph V. :
REPT. NO. USAAVSCOM-TR-76-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Inflation(Economics), *Army aircraft, *Cost estimates, Money, Army budgets, Cost analysis, Computer programs, Computations, Methodology, History (U)
IDENTIFIERS: *Cost indexes (U)

This report extends, revises, and summarizes previous efforts to develop the necessary rationale and methodology necessary to construct historical inflation indices relative to Army aircraft. In addition, a computerized Historical Inflation Program is presented and described. The program can be updated monthly, is easily revised for changes in Bureau of Labor Statistics methods, and capable of handling data through the transition year, FY 77. Output is expressed as monthly, quarterly, calendar year inflation indices (in Calendar Year 1967 base) and inflation factors (in any Fiscal Year base). These indices and factors provide a means of accurately adjusting historical cost data to constant year dollars. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A020 508 13/12 13/13 9/2

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

A Design-Aid and Cost Estimate Model for Suppressive Shielding Structures. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 75 124P Pei,Richard S. K. ;
REPT. NO. USAMC-ITC-02-08-76-413

UNCLASSIFIED REPORT

DESCRIPTORS: *Shielding, *Computerized simulation, *Computer aided design, *Cost estimates, Suppression, Structures, Ventilation, Coefficients, Bending, Yield, Moments, Beams(Structural), Penetration, Fragments, Parameters, Plates, Thickness, Materials, Structural members, Fabrication, Welding, Computer programs, Variables, Explosives, Explosions, Safety, User needs (U)
IDENTIFIERS: *Suppressive shielding (U)

A computer cost model of suppressive shielding structures has been constructed and is presented in the report. This model consists of design-aid and cost estimation programs which, with proper inputs, calculates and outputs specific design and cost variables of suppressive structures. Design variables include the following: venting coefficient, plastic bending and yield moments of beams, penetration of primary fragments, and the total effective thickness of plates. Cost output variables include: material, fabrication, welding, and total costs of panels, frame, door, and foundation of a cubical suppressive structure. A description of the model and its construction details are reviewed in the repo.t. A user's guide which includes step by step instructions in data inputs is also provided. (Author) (U)

AD-A020 508

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A020 457 14/4

HUGHES AIRCRAFT CO FULLERTON CA GROUND SYSTEMS GROUP

Reliability Acquisition Cost Study (II). (U)

DESCRIPTIVE NOTE: Final technical rept.,
NOV 75 69P Schafer,R. E. ;Mead,G. T. ;Angus,J. E. ;
CONTRACT: F30602-74-C-0139
PROJ: AF-5519
TASK: 551902
MONITOR: RADC,GIDEP TR-75-270,E070-0873

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Also available as GIDEP-347.40.00.00-F9-06.
DESCRIPTORS: *Reliability(Electronics), *Cost analysis, Mathematical models, Mathematical prediction, Regression analysis, Graphics, Curve fitting, Data bases (U)
IDENTIFIERS: Goodness of fit tests (U)

This report presents the results of a quantitative investigation into the relationship between reliability expenditures (costs) and reliability in the development phase for ground systems. The reliability program was divided into three phases: design, parts, and evaluation. In particular, three areas were addressed. First, quantitative relationships were developed for predicting reliability costs, by phase, of the reliability program and total cost, based on commonly available independent variables. Second, prediction models were developed for achieved reliability. Next, reliability gain (due to expenditures in each phase) was studied and models were developed for estimating reliability gain: total and by phase. Finally, optimal allocation of reliability resources was investigated. Models were developed and a solution found. The data base consisted of ten systems of relatively recent vintage. The data were subjected to an evaluation for validity and factors affecting reliability and reliability expenditures which could only confuse the results were normalized out of the data. (U)

AD-A020 457

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A020 363 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Workload Analysis of a Military Repair Depot. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 75 205P Clark,Donald A. :
REPT. NO. GOR/SM/75S-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Depots, *Military facilities, *Cost analysis, Labor, Materials, Least squares method, Regression analysis, Cost effectiveness, Work measurement, Theses (U)
IDENTIFIERS: Indirect costs (U)

Depot sizing is a topic of concern to the Air Force. Determination of the proper size of a repair depot requires a close look at the effects of volume level and economies of scale upon depot costs. In this analysis, direct labor, direct material and overhead costs are examined at time and volume levels change. An output measure is presented as well as an approach for use in workload analyses. Specifically, this study centers on the Aerospace Guidance and Metrology Center (AGMC) located at Newark AFS, Ohio. Relations for estimating direct labor hours, direct labor costs, direct material costs, and overhead costs are derived for 12 end items using least squares regression techniques. The 'measure of merit' problem is examined with respect to finding a workload mix and volume level which is cost effective. An approach to workload analysis is presented which measures the effect on the existing depot workload of adding or deleting an end item. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A020 289 12/2 5/3 12/1 14/1

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Some Results on An 'Income Fluctuation Problem'. (U)

DESCRIPTIVE NOTE: Research rept.,
DEC 75 31P Schechtman,Jack :Escudero, Vera L. S. :
REPT. NO. ORC-75-23
CONTRACT: N00014-76-C-0134, NSF-SOC-75-15566

UNCLASSIFIED REPORT

DESCRIPTORS: *Operations research, *Income, *Savings, *Dynamic programming, *Purchasing, *Economics, *Stochastic processes, *Cost analysis, Consumers, Commerce, Inventory control, Brazi (U)
IDENTIFIERS: *Earnings, *Income fluctuation problem, Cash flow, Competitive prices, Rio de Janeiro (U)

A consumer at each period, given the income available, y, has to decide how much to consume and save. If he consumes c > or = units he gets u(c) units of satisfaction or utility, and if x = y - c > or = is the amount saved then the available income in the next period is rx + omega(k) where omega(k) is a random variable, and r is an interest factor that is assumed to be known with certainty. Infinite time horizon problems are considered, and it is shown that if 0 < delta r < 1, where 0 < delta < 1 is a discount factor, then the limiting policy is optimal. Questions about the behavior of the stock level are considered, such as boundness and it is given an example that shows that the stock level might converge almost surely to infinity. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A020 228 5/1 15/5 1/2 12/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Aircraft Airframe Cost Estimation by the Application of Joint Generalized Least Squares. (U)

DESCRIPTIVE NOTE: Master's thesis.
NOV 75 119P Handel,Vernon :
REPT. NO. GOR/SM/75D-7

UNCLASSIFIED REPORT

DESCRIPTORS: *Military aircraft, *Airframes, *Cost estimates, Least squares method, Mathematical models, Statistical analysis, Mathematical prediction, Air Force procurement, Contracts, Theses (U)

Joint Generalized Least Squares is a statistical technique which allows for the interaction of a set of regression equations through correlated disturbances. Aircraft airframe cost estimation may be accomplished by disaggregation into elements of cost such as material, labor, tooling, and engineering. Data for various types of aircraft are used to demonstrate the effect of using Joint Generalized Least Squares in developing cost estimating relationships for the elements of airframe cost. A comparison is made to relationships developed using Ordinary Least Squares. Dependent on the number of observations, the number of relationships developed jointly, and the different explanatory variables used, the variance of the relationships may be reduced by using Joint Generalized Least Squares. The Joint Generalized Least Squares technique is extended to permit revision of predictions using the joint distribution of the elements of cost. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A020 210 5/1 15/5 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Microeconomic Theory Applied to Parametric Cost Estimation of Aircraft Airframes. (U)

DESCRIPTIVE NOTE: Master's thesis.
DEC 75 86P Dunne,William E. :
REPT. NO. GOR/SM/75D-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Military aircraft, *Airframes, *Cost estimates, *Air Force procurement, Mathematical models, Control theory, Nonlinear programming, Least squares method, Statistical analysis, Production, Time, Contracts, FORTRAN, Theses (U)
IDENTIFIERS: Microeconomics, Sensitivity analysis, Parameter estimation (U)

The theories of microeconomics and optimal control were used to formulate a parametric cost estimation model that provides an insight into the cost flow of an aircraft airframe production program. The model developed uses original total airframe quantity (volume) and initial total production contract time, as well as the traditional values of cumulative quantity, AMPR weight, and speed, as explanatory variables. A form of the model was solved by both a constrained least squares approach and by a nonlinear algorithm with similar results. In the analysis of the model the parameters of volume and time were not found to be statistically significant. The surrogate variables of actual contract volume and time do not explain a significant amount of the total program cost. Several reasons are offered in the thesis. Validation of the model indicates that it is a highly satisfactory estimator of total program cost. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A019 947 13/8 12/2 15/5 14/1
5/3

MASSACHUSETTS INST OF TECH CAMBRIDGE OPERATIONS RESEARCH CENTER

A Hierarchical Approach to Production Planning. (U)

DESCRIPTIVE NOTE: Technical rept.,
DEC 75 135P Cabbay,Henry ;
REPT. NO. TR-120
CONTRACT: N00014-75-C-0556, N00014-75-C-0661
PROJ: NR-347-027, MIT-OSP-82491

UNCLASSIFIED REPORT

DESCRIPTORS: *Production, *Logistics planning, *Operations research, *Economic models, *Cost analysis, *Research management, Production control, Theses, Inventory control, Decision making (U)
IDENTIFIERS: *Organization levels, Production planning, Product costs, Management science (U)

We begin this discussion with an analysis of the hierarchical framework discussed in Hax and Meal, 1975. After defining the different levels of the hierarchy we provide necessary and detailed models. Several interpretations and consequences of these results are discussed. In addition, it is shown that planning horizons to insure consistency on a detailed level are intimately related to planning on an aggregate level. Although we cannot demonstrate the optimality of the approach of Hax and Meal, lower bounds are easily derived. For the remainder of the report, we do not consider the aggregate product structure of Hax and Meal. Instead, in a linear model, we aggregate all items together. Under a quite general cost structure, we are able to characterize optimal aggregate production which can be optimally disaggregated. The analysis is extended from the single to the multi-echelon case. We formalize some of the preceding notions and present a more general underlying theory. The aggregate characterization is closely related to properties of Leontief systems. In addition, a new characterization of Leontief Substitution Systems is presented. Finally, we extend the original problem to include both regular and overtime considerations and then fixed charges in production.(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A019 932 19/1 5/1

ARMY ARMAMENT COMMAND ROCK ISLAND IL. SYSTEMS ANALYSIS DIRECTORATE

Risk Analysis of the US Army 155mm Cannon-Launched Guided Projectile Program. (U)

DESCRIPTIVE NOTE: Interim note.
DEC 74 19P Metzler,M rtin . Jr:
REPT. NO. AMSAR/SA/N-30

UNCLASSIFIED REPORT

DESCRIPTORS: *Guided projectiles, *Artillery ammunition, *Cost analysis, Risk, Scheduling, Production, Uncertainty, Networks, Statistical analysis (U)
IDENTIFIERS: CLGP(Cannon Launched Guided Projectile), *Cannon launched guided projectile, Vert network analyzer, Network analysis, *155-mm guided projectiles (U)

This analysis estimates the schedule and cost risks associated with the Army 155mm Cannon-Launched Guided Projectile (CLGP) development program. The analysis considered the Army CLGP program from 1 January 1975 to initiation of full scale production. Uncertainties were analyzed by simulating the program using a network format and representing cost and schedule as random variables. Statistics were obtained using the VERT network analyzer. The planned program schedule and costs were found to be close to those obtained from the network analysis. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A019 701 5/1 15/3

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA COST ANALYSIS GROUP

Military Cost Analysis in the FCRCs (Federal Contract Research Centers) - 1950-1975. (U)

DESCRIPTIVE NOTE: Final paper,
OCT 75 33P McCullough,James D. :
REPT. NO. P-1171
MONITOR: IDA/HQ 75-18092

UNCLASSIFIED REPORT

DESCRIPTORS: *Department of Defense, *Cost analysis, *Contract administration, Cost estimates, Decision making, Organizations, Military planning, Military research (U)

The 16 organizations which were Federal Contract Research Centers (FCRCs) in 1969 are identified. The current list of 9, including the 4 which have Cost Analysis Groups (CAGs), is described by OSD category. 'CAG' is defined in terms of organizational structure and functions. The history and staffing of CAGs in the 7 FCRCs (of the 16) which have had CAGs is traced from 1950 through 1975. The role and contributions of the CAGs during three time periods--the 1950-60 period, the Hitch-McNamara period of 1961-67, and the 1968-75 period--are discussed. Negative views by some members of Congress and the uniformed military of the FCRCs are analyzed as to possible causes and as to their impact on the FCRCs. The recent impact of this changing environment on CAGs is discussed. The results of an informal survey of the 4 CAGs is presented, including their organizational title, management, staff size, military clients, and planned military research program for FY 76. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A019 379 20/6 1/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Approach to the Estimation of Life Cycle Costs of a Fiber-Optic Application in Military Aircraft. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 75 163P McGrath,John Michael :
Michna,Kenneth Ralph :

UNCLASSIFIED REPORT

DESCRIPTORS: *Fiber optics, *Optical materials, *Life cycle costs, Military aircraft, Signal processing, Cables, Optical waveguides, Light emitting diodes, Cost effectiveness, Waveguide couplers, Optical glass, Economic analysis, Delphi techniques, Forecasting, Theses, Attack bombers, Jet bombers, Avionics (U)
IDENTIFIERS: Optical fibers, ALOFT program, A-7E aircraft, A-7 aircraft (U)

As significant technological advances in fiber optics and optical data transmission methods are being made, it is necessary to develop appropriate methods for estimating life cycle costs for alternative coaxial/twisted pair wire and optical fiber avionics. Measures of effectiveness are suggested for each alternative system. An approach, which structures the technological and demand uncertainties of fiber optics, is developed through scenarios as a means of relating cost and effectiveness. It is suggested that Delphi and experience curve techniques be used in conjunction with ordered scenarios as a technological forecasting technique for estimation of life cycle costs of fiber optics. In addition, a review of the historical and technological background of fiber optics and their application to the Naval Electronics Laboratory Center (NELC) A-7 Airborne Light Optical Fiber Technology (ALOFT) Program is included. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A019 190 5/1 5/3

MASSACHUSETTS UNIV AMHERST GRADUATE SCHOOL

Capital/Labor Substitution and Factor Price Ratios in a Military Service: A Study of Defense Resource Allocation. (U)

DESCRIPTIVE NOTE: Doctoral thesis.
AUG 75 103P Clark,Rolf H. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Military budgets, *Cost estimates, *Economic analysis, Military procurement, Manpower, Confidence level, Confidence limits, Policies, Trade off analyses, Mathematical models, Salaries, Labor, Cost analysis, Weapon systems, Naval planning, Theses (U)
IDENTIFIERS: *Resource allocation, Econometrics (U)

While some analysts claim U.S. Defense systems should become more capital intensive to offset rising labor costs, other feel they are already too sophisticated for the Defense labor force. The research has three goals, which help clarify this division. First, capital/labor ratios as indicators of Defense efficiency are oriented within existing capital accumulation theory. Second, models are developed which are consistent with this theory. Third, the parameters of these models are estimated using U.S. Navy budget and asset data. An attempt is then made at synthesizing the two divergent viewpoints in light of the research models and findings. The findings include the following: (1) both Defense capital and manpower costs are underestimated by approximately 30%, thus cost bias may be insignificant. The implications of upsetting this balance through new policies such as a salary pay system are discussed. (2) Shifts toward higher capital intensity are evident in new systems, but because of the low and decreasing ratio of new to total defense hardware, changes in overall capital labor ratios have reacted slowly. Finding (2) is presented by comparing substitution elasticity for new versus total systems, and forms the basis for synthesizing the two views on proper capital accumulation. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A019 185 5/1 15/3

ASSISTANT SECRETARY OF DEFENSE (SYSTEMS ANALYSIS) WASHINGTON D C

Proceedings of the Annual Department of Defense Cost Analysis Symposium (8th) Held at Airlie, Virginia on 22-25 September 1974 and Hosted by the Comptroller of the Air Force. (U)

SEP 74 68P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 8 Nov 73, AD-774 653.
DESCRIPTORS: *Cost analysis, *Department of Defense, *Meetings, Cost estimates, Management planning and control, Weapon systems, Personnel, Life cycle costs, Contracts (U)

:Contents: Relationships between the Congress and Department of Defense; Congressional Budget and Impoundment Control Act of 1974; Cost data problems; Inflation Considerations in weapon systems costs; Personnel costing; Design to cost (DTC) and life cycle cost (LCC) implications; Operations and support costs; Acquisition cost estimating; Economic analysis and program evaluation. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A018 624 15/5

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS DIRECTORATE

Deadline Cost Model Study. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 75 20P Husson,Richard D. ;Moeller, Gerald L. ;
REPT. NO. AMSAR/SA/N-09

UNCLASSIFIED REPORT

DESCRIPTORS: *Army equipment, *Cost analysis, *Logistics planning, Mathematical models, Acquisition, Cost estimates, Life cycle costs, Maintenance, Army planning, Logistics management, Tanks(Combat vehicles) (U)
IDENTIFIERS: Cost models, M-109 Howitzers(155-mm), M-167 Vulcan air defense systems, M-163 Vulcan air defense systems, M-551 vehicles (U)

The study develops a generalized model used to quantify the cost incurred by the Army when an equipment unit is deadlined. The force-level model developed used float factor, acquisition cost, service life, repair and maintenance cost, crew cost and an impact cost as inputs to develop sample deadline costs for the M551, M163, M167, and M109. A sensitivity analysis on these sample items indicated that the model has considerable stability and is not greatly sensitive to input estimation errors. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A018 526 15/5 5/1

RAND CORP SANTA MONICA CALIF

The Impact of Required Contractual Clauses on System Acquisition Policies: The Case of Value Engineering. (U)

DESCRIPTIVE NOTE: Interim rept.,
SEP 75 55P Baumbusch,Geneese G. ;
REPT. NO. R-1722-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Errata sheet inserted.
DESCRIPTORS: *Value engineering, *Design to cost, *Contracts, *Government procurement, Military procurement, Cost analysis (U)
IDENTIFIERS: Fixed price contracts (U)

This study examines the role that value engineering (VE) clauses may be expected to play in design-to-cost contracting. Encouraged by Armed Services Procurement Regulations incentives, contractor VE efforts are supposed to result in proposals for contract changes that reduce some aspects of the cost associated with developing, producing, or operating a particular item. While VE clauses have produced some savings, there have also been certain costs associated with the use of a complex contractual device. This report suggests that cost saving will be much more likely to occur with increased use of fixed-price contracting for discrete phases of development and production, along with more competition. Based on an analysis of past experience with VE clauses, the central conclusion of this study is that while the cost-saving intent of value engineering should be an essential ingredie.: in design-to-cost strategy, the contractural clauses themselves will at best be marginally effective and may even hinder implementation of design-to-cost programs. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A018 308 5/3 14/1 9/2

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Approach to Point of Sale System Acquisition Cost-Benefit Analysis. (U)

DESCRIPTIVE NOTE: Master's thesis, SEP 75 65P Fleming,James Alexander , Jr;

UNCLASSIFIED REPORT

DESCRIPTORS: *Commerce, *Cost analysis, *Digital computers, *Cost benefits, Electronic equipment, Department of Defense, Automation, Retail, Data acquisition, Interactions, Economic models, Procurement, Theses (U)
IDENTIFIERS: POS(Point of Sale Systems), Point of Sale Systems, ECR(Electronic Cash Registers), Electronic Cash Registers, Commissaries, Supermarkets, Retail industry, Automated supermarkets, Automated retailing, Electronic Point of Sale (U)

Point of Sale (POS) Systems introduced into the retail and supermarket industries exemplify a change which is occurring in all data collection. Initial Department of Defense utilization of POS Systems is occurring in commissaries and exchanges, military counterparts of the supermarket and retail industries respectively. The purpose of a POS System is to automate point of sale by replacing the electro-mechanical cash register with an electronic cash register (ECR) capable of some degree of interaction with the computer. This thesis summarizes the diffuse literature on POS Systems through discussion of POS System development, components and configurations, and proposes a general cost-benefit model to assist in the POS System acquisition decision. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD-A017 761 1/3 15/5 9/2

TECHNOLOGY INC DAYTON OHIO INSTRUMENTS AND CONTROLS DIV

RMS Cost Model User's Manual. (U)

DESCRIPTIVE NOTE: Final rept. Jun 74-Nov 75, SEP 75 119P Kirchmer,James E.
CONTRACT: DAAJ01-74-C-0839
MONITOR: USAAVSCOM TR-75-28

UNCLASSIFIED REPORT

DESCRIPTORS: *Helicopters, *Maintainability, *Cost analysis, *Computer programs, Army aircraft, Maintenance, Spare parts, Maintenance personnel, FORTRAN, Inspection, Cost estimates, User needs, Computerized simulation (U)
IDENTIFIERS: H-58 aircraft, OH-58 aircraft, RMS computer program, Scenarios (U)

This manual provides a detailed description of the cost input required to operate the RMS Cost model: the descriptions, flow-charts and source listings for the operation and maintenance cost computation subroutines; a complete source listing of the RMS Cost program with annotations for RMS code modifications; and a sample of the cost-information tables. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A017 760 1/3 15/5

TECHNOLOGY INC DAYTON OHIO INSTRUMENTS AND CONTROLS DIV

Development of RMS Cost Model and Demonstration of Alternative OH-58 Maintenance Scenarios. (U)

DESCRIPTIVE NOTE: Final rept. Jun 74-Nov 75, JUL 75 76P Clay,Larry E. ;Kirchmer, James E. ;
REPT. NO. TI-069220-75-06
CONTRACT: DAAJ01-74-C-0839
MONITOR: USAAVSCOM TR-75-27

UNCLASSIFIED REPORT

DESCRIPTORS: *Helicopters, *Maintainability, *Cost analysis, Army aircraft, Maintenance, Spare parts, Maintenance personnel, Inspection, Cost estimates, Computerized simulation (U)
IDENTIFIERS: H-58 aircraft, OH-58 aircraft, RMS computer program, Scenarios (U)

For several years, the Army has employed the Reliability and Maintainability Simulator (RMS) computer program to simulate the operation and maintenance of helicopter fleets of up to 24 aircraft. However, since the basic RMS model did not include cost information, the economic consequences of changes in the maintenance procedures could not be projected, and the cost effectiveness of contemplated reliability improvements could not be evaluated. Consequently, to remedy these deficiencies, the RMS model was revised and expanded to an RMS COST model by adding a cost computation to determine all operating and maintenance costs during the simulation period. The resultant RMS COST model was demonstrated by executing a simulation of an OH-58 helicopter company with a baseline mission and maintenance system scenario and then with six alternative scenarios. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A017 658 12/1 14/1

STANFORD UNIV CALIF DEPT OF STATISTICS

A Difference Equation Approach to the Optimal Control of a Multiclass Queue with Discounted Costs. (U)

DESCRIPTIVE NOTE: Technical rept., MAY 75 21P Reed,Frank C. :
REPT. NO. TR-168
CONTRACT: N000!4-75-c-0561, NSF-GK-35491
PROJ: NR-042-002

UNCLASSIFIED REPORT

DESCRIPTORS: *Difference equations, *Queueing theory, *Cost analysis, Control, Costs, Optimization, Algorithms, Theorems (U)
IDENTIFIERS: Discounted costs, Customers (U)

This report considers the problem of dynamically selecting one of a finite number of customer classes to serve so that the total expected discounted cost over an infinite horizon is minimized. Decisions are allowed at the time of service completion, or if the server is idle, at the time of customer arrival. It is assumed that customers arrive according to independent Poisson processes with different arrival rates for the various customer classes. Service times are independently distributed and identically distributed for customers of a given class. The cost structure is linear and includes class-dependent holding costs, service costs, and rewards. Difference equations are used to derive a closed form expression for total expected discounted cost given the process begins with an arbitrary number of customers in each customer class in the queue and a non-preemptive priority discipline is used. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A017 563 19/1

ARMY ARMAMENT COMMAND ROCK ISLAND ILL COST ANALYSIS DIV

First Destination Transportation Cost for Ammunition. (U)

DESCRIPTIVE NOTE: Technical rept.,
OCT 75 30P Baker,Robert L. :
REPT. NO. AMSAR-CPE-75-7

UNCLASSIFIED REPORT

DESCRIPTORS: *Ammunition, *Transportation, *Cost analysis, Regression analysis, Costs, Predictions, Decision making (U)

This study provides predictive equations for total, second-leg, and interim first destination transportation (FDT) costs (FY 75 dollars) for ammunition items. The methodology employs regression analysis involving the independent variables of unit weight, unit volume, standard price, and their transgenerations. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A017 540 14/1 11/7 5/9

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Equilibrium Analysis of Effects of a Price Change of an Input Factor in the Context of Input-Output System. (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 75 76P Francisco,Clodualdo R. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Economic analysis, Equilibrium(General), Petroleum products, Labor, Energy, Consumers, Models, Market research, Theses, Input, Output, Stability (U)
IDENTIFIERS: Prices (U)

This paper is an attempt to model the effects of price change of a primary input factor into a segment of an economy. The primary input factor referred to is petroleum and the segment of the economy, the energy sectors. Labor is considered as another primary input factor. Market equilibrium is assumed to be stable and the disturbance caused by a price change in a primary input factor results in a new equilibrium state. Three approaches are made to define or specify this new state of equilibrium. Input-Output economics is the primary basis of all three approaches. Having analyzed and defined the new equilibrium state gave results that could serve as bases in making policy measures relative to the nature of the disturbance. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A017 238 12/2 14/4

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Optimal System Allocations with Penalty Costs. (U)

DESCRIPTIVE NOTE: Research rept.,
SEP 75 19P Derman,Cyrus ;Lieberman, Gerald J. ;Ross,Sheldon M. ;
REPT. NO. ORC-75-15
CONTRACT: N00014-75-C-0781, DAHC04-75-G-0163
PROJ: ARO-P-12549-M
MONITOR: ARO 12549.7-M

UNCLASSIFIED REPORT

DESCRIPTORS: *Construction, *Costs, Reliability, Allocations, Mathematical models, Theorems, Optimization (U)
IDENTIFIERS: *Allocation models (U)

There are N stages to sequentially construct I successful components. At each stage, one allocates a certain amount of money for the construction of a component. If y is the amount allocated, then the component constructed will be a success with probability P(y), where P is a continuous nondecreasing function satisfying P(0) = 0. After each component is constructed, one is informed as to whether or not it is successful. If, at the end of the N stages, there are i components short, then a final penalty cost C(i) is incurred. The problem is to, at each stage, determine how much money to allocate so as to minimize the total expected cost (construction cost plus penalty cost) incurred. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A017 222 19/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Independent Cost Estimate of the GAU-8 Aluminum Cartridge Case. (U)

DESCRIPTIVE NOTE: Master's thesis (Final),
JUL 75 104P Hall,Richard L. :
REPT. NO. GSM/SM/75S-10

UNCLASSIFIED REPORT

DESCRIPTORS: *Cartridge cases, *Cost estimates, Aluminum alloys, Fabrication, Contracts, Configurations, Regression analysis, Theses (U)
IDENTIFIERS: GAU-8 cartridge cases (U)

An independent cost estimate (ICE) was made on anticipated buys of the GAU-8 30MM aluminum casing. The 'state of the art nature' of aluminum cased ammunition and the absence of historical cost data on similar items resulted in a multitechnique costing approach. An industrial costing approach, based on process data independent of the participating casing manufacturers, was used to estimate large quantity contract buys. Statistical cost estimation, using 20MM steel casing information as a data base, was used to formulate a cost estimating relationship which was then adjusted to reflect the anticipated difference between 20MM steel and 30MM aluminum casings. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A017 125 1/3 14/1 15/5

RAND CORP SANTA MONICA CALIF

A Weapon-System Life-Cycle Overview: The A-7D Experience. (U)

OCT 74 47P Nelson,J. R. ;Dey,P. Konoske ;Fiorello,M. R. ;Gebman,J. R. ; Smith,G. K. ;
REPT. NO. R-1452-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: *Attack aircraft, *Life cycles, Maintenance, Combat readiness, Avionics, Cost analysis, Logistics support, Data acquisition (U)
IDENTIFIERS: A-7 aircraft, A-7D aircraft, *Life cycle costing (U)

This study focuses primarily on a comparison of test-phase results with the subsequent operational experience of the A-7D attack aircraft to determine when component reliability and maintenance problems were revealed, what kinds of problems showed up in the various stages of the weapon-System life cycle, and the impact these problems had on operational availability and operating cost. It is found that earlier correction of critical problems should reduce operational and maintenance costs and increase the capability of the system enough to permit a net improvement in the overall capability life-cycle cost of the system. An extended, comprehensive initial Operational Test and Evaluation would allow identification of additional reliability and maintenance problems. A better approach to development of avionics components and related software is needed. Finally, data systems should be improved as necessary and exploited more fully. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A016 962 9/5 5/1

MARTIN MARIETTA AEROSPACE ORLANDO FLA

PWB Production Assembly Cost Guidelines (U). (U)

DESCRIPTIVE NOTE: Quarterly progress rept. no. 1, 26 Mar-31 Jul 75.
JUL 75 122P Osborne,Sol C. ;Hutchinson, Wendell R. ;
REPT. NO. OR-13826
CONTRACT: DAAB07-75-C-0029

UNCLASSIFIED REPORT

DESCRIPTORS: *Printed circuits, *Cost analysis, Costs, Assembly, Circuit boards, Manuals, Production, Automation, Production engineering (U)

A mini-printed wiring board (PWB) production cost manual was prepared identifying and describing representative sections of a manual for the program goal of providing guidelines enabling user to select and evaluate manual and automatic assembly methods. Assembly and cost data was obtained by surveys defining PWBs and assembly capabilities including cost analysis models. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A016 788 5/1 13/3

ARMY CONSTRUCTION ENGINEERING RESEARCH LAB CHAMPAIGN ILL

Construction Equipment Cost Guide. (U)

DESCRIPTIVE NOTE: Final rept.
OCT 75 108P Neely,E. :
REPT. NO. CERL-TR-P-52

UNCLASSIFIED REPORT

DESCRIPTORS: *Construction equipment, *Cost analysis, Contracts, Government procurement, Salaries, Rates, Operators(Personnel), Contract administration, Economic analysis, Profits (U)
IDENTIFIERS: *Construction management, *Ownership costs (U)

The purpose of this guide is to assist field pricing support personnel (estimators, negotiators, price analysts, auditors, etc.) in estimating construction equipment hourly ownership and operating rates. The guidance provided is in accordance with general concepts of the contract cost principles and procedures in Armed Services Procurement Regulations (ASPR Section 15) and Federal Procurement Regulations (FPR Part 1-15). The manual is intended for use in negotiated construction procurements which require an independent government estimate by regulation. The original construction contract is awarded as a result of an advertised procurement while contract modifications to advertised procurements are negotiated. The cost estimating concepts of these two procurement types are different. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A016 626 17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

AGMC LCC Model for Inertial Navigation Systems. (U)

DESCRIPTIVE NOTE: Final rept..
OCT 75 72P Weitzler,Thomas D. :
REPT. NO. AGMC-75-001

UNCLASSIFIED REPORT

DESCRIPTORS: *Inertial navigation, *Life cycle costs, Cost analysis, Computer programs, Mathematical models, Variables, Constants, Parameters, Logistics (U)
IDENTIFIERS: Cost of ownership, *Life cycle costing (U)

The purpose of this report is to document a mathematical model currently being used to evaluate the potential life cycle costs of inertial navigation systems. This model has the capability of isolating and analyzing logistics start-up costs. It also allows for inertial system subassembly analysis. The report includes definitions of all input and output parameters, explanation of the equations, program listing with data deck description, and a sample run. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A016 478 1/3 5/1 17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Avionics Proliferation: A Life Cycle Cost Perspective. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 75 30P Genet ,Russell M. ;Meitzler, Thomas D. ;
REPT. NO. AGMC-75-002

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
DESCRIPTORS: *Avionics, *Life cycle costs, *Inertial navigation, Economic analysis, Cost effectiveness, Military aircraft (U)

The paper discusses proliferation and when it can occur. It specifically looks at the economic question of when can it be cost effective to use an existing military inertial navigation system for new aircraft rather than developing and using a new system. The discussion is from a life cycle cost viewpoint with particular attention to the 'start-up' costs. Attached with the paper is a complete reproduction of the input data and computer results used. (U)

AD-A016 478

UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A016 410 1/3 14/1 9/2

GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures Volume II - Estimating Handbook and User's Manual, Part II. (U)

DESCRIPTIVE NOTE: Final rept. Jul 72-Feb 75.
MAY 75 366P Kenyon,R. E. ;
CONTRACT: F33615-72-C-2083
PROJ: AF-1368
TASK: 136802
MONITOR: AFFDL TR-75-44-Vol-2-Pt-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-A016 408.
DESCRIPTORS: *Airframes, *Cost estimates, *Computer programs, Costs, Methodology, Trade off analyses, Cost analysis, Weight, Construction, Materials, Ribs, Spars, Coverings, Leading edges, Trailing edges, Aerodynamic configurations, Computerized simulation, Input, Time sharing, Data bases, User needs, Manuals, Tables(Data), Graphs (U)
IDENTIFIERS: Cost estimating relationships, COSTC computer program (U)

This volume provides a detailed description of the function and use of two weapon system costing methodologies for aircraft airframes and basic structures developed for the Air Force Flight Dynamic Laboratory for use in conceptual and preliminary designs phases of weapon system development. The methods are a trade study costing method for detailed cost analysis of trades-off between weight, cost, type of construction and type of material and a system costing method for determing the projected cost of a complete airframe within the context of a weapon system development. This volume describes how to make an estimate using either technique and shows the results of a demonstration case. Tradeoff capability has been provided for a range of alternative structure and material combinations. A technique for independent assessing complexity factor has been developed and demonstrated. (U)

AD-A016 410

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A016 409 1/3 5/1

GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume II. Estimating Handbook and User's Manual. Part I. (U)

DESCRIPTIVE NOTE: Final rept. Jul 72-Feb 75, MAY 75 283P Kenyon,R. E. :
CONTRACT: F33615-72-C-2083
PROJ: AF-1368
TASK: 136802
MONITOR: AFFDL TR-75-44-Vol-2-Pt-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, Part 2, AD-A016 410.
DESCRIPTORS: *Airframes, *Cost estimates, Instruction manuals, Methodology, Trade off analyses, Weight, Ribs, Spars, Coverings, Leading edges, Trailing edges, Skin(Structural), Assembly, Fabrication, Systems analysis, Computer programs, Data acquisition, Data processing, Data bases, Files(Records), Cost analysis, Costs, Handbooks (U)
IDENTIFIERS: *Cost estimating relationship (U)

This volume provides a detailed description of the function and use of two weapon system costing methodologies for aircraft airframes and basic structures developed for the Air Force Flight Dynamics Laboratory for use in conceptual and preliminary designs phases of weapon system development. The methods are a trade study costing method for detailed cost analysis of trades-off between weight, cost, type of construction and type of material and a system costing method for determining the projected cost of a complete airframe within the context of a weapon system development. This volume describes how to make an estimate using either technique and shows the results of a demonstration case. Tradeoff capability has been provided for a range of alternative structure and material combinations. A technique for independent assessing complexity factor has been developed and demonstrated. (U)

AD-A016 409

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A016 408 1/3 5/1

GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume I. Technical Volume. (U)

DESCRIPTIVE NOTE: Final rept. Jul 72-Mar 75, JUN 75 341P Kenyon,R. E. :
CONTRACT: F33615-72-C-2083
PROJ: AF-1369
TASK: 136802
MONITOR: AFFDL TR-75-44-Vol-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, Part 1, AD-A016 409.
DESCRIPTORS: *Airframes, *Cost estimates, Methodology, Trade off analyses, Assembly, Fabrication, Weight, Ribs, Spars, Coverings, Structural members, Skin(Structural), Leading edges, Trailing edges, Systems analysis, Fabrication, Computer programs, Data acquisition, Data processing, Data bases, Cost analysis, Costs (U)
IDENTIFIERS: *Cost estimating relationships (U)

This volume provides a detailed description of the function and use of two weapon system costing methodologies for aircraft airframes and basic structures developed for the Air Force Flight Dynamics Laboratory for use in conceptual and preliminary designs phases of weapon system development. The methods are a trade study costing method for detailed cost analysis of trades-off between weight, cost, type of construction and type of material and a system costing method for determining the projected cost of a complete airframe within the context of a weapon system development. This volume provides a technical discussion of method development. Tradeoff capability has been provided for a range of alternative structure and material combinations. A technique for independently assessing complexity factors has been developed and demonstrated. Manufacturing costs are separately estimated for the primary elements of substructure: ribs, spars, covers, leading edges, trailing edges, tips, etc. (U)

AD-A016 408

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A016 344 6/10 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Cost Prediction Models for Bringing Selected Air Force Logistics Command Facilities into Compliance with the Occupational Safety and Health Administration Standards. (U)

DESCRIPTIVE NOTE: Master's thesis,
AUG 75 92P Burk,Dannie O. ;Moeller, George H. ;
REPT. NO. SLSR-39-75B

UNCLASSIFIED REPORT

DESCRIPTORS: *Buildings, *Cost analysis, *Cost estimates, *Logistics planning, Theses, Mathematical models, Air Force, Tables(Data), Safety, Industrial hygiene, Standards (U)
IDENTIFIERS: *Occupational safety and health, Recommendations (U)

The purpose of the study was to ascertain if groupings of Air Force buildings, having the same or similar characteristics (as described in real property records) could be correlated into a mathematical model that would predict the costs necessary to bring buildings into compliance with standards as set by the Occupational Safety and Health Administration. Building characteristics from Air Force real property records (such as floor space, age, and function) were sorted and regressed against estimated costs obtained from an actual MAJCOM survey. The model shows that a correlation can be made between building characteristics and actual survey estimated OSHA retrofit costs. Using similar models, budget estimates for renovation could be calculated for buildings with same or similar characteristics. Recommendations for future surveys are included. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A016 270 15/5 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Cost/Schedule Control System Criteria: An Analysis of Managerial Utility. (U)

DESCRIPTIVE NOTE: Master's thesis,
AUG 75 131P Ostdiek,Marion A. ;Estes, Richard T. ;
REPT. NO. SLSR-15-75B

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Logistics planning, *Weapon systems, *Contracts, Government procurement, Management information systems, *Management planning and control, Theses (U)
IDENTIFIERS: *Logistics management, Utility functions, Planning programming budgets (U)

The Cost/Schedule Control System Criteria (C/SCSC) is imposed on a contractor's management information system during the performance of a contract for a major weapon system. Previous studies on C/SCSC had identified managerial resistance to the criteria. Data, gathered through structured interviews with military and contractor managers, was analyzed to find if a predetermined set of attitudes affected the perceived utility of C/SCSC. The selected variables of acceptance of quantitative techniques, cost consciousness, knowledge of quantitative techniques, and hierarchical position were studied as major factors influencing the perceived utility of the criteria. Relationships between the selected variables were not supportive of all five stated hypotheses; however, the study provided detailed data on the selected variables and on C/SCSC as a management tool. After a review of the managers' opinions and the available data, a conclusion was reached showing that the criteria in its present form is not sufficiently productive for the project goals. The study also indicates that a significant difference exists between military and civilian managers. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A016 262 15/5 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Appraisal of the Short-Term Cost Results of a Selected Number of Air Force Should Cost Studies. (U)

DESCRIPTIVE NOTE: Master's thesis.
AUG 75 85P Schaefer,William E. ;
Birkhead,Roy F. ;
REPT. NO. SLSR-2-75B

UNCLASSIFIED REPORT

DESCRIPTORS: *Air force procurement, *Contracts, *Cost analysis, Weapon systems, Costs, Logistics, Production engineering, Contract administration, Management planning and control, Theses (U)
IDENTIFIERS: *Should cost analysis, *Contract pricing, *Contract negotiations (U)

Should Cost briefly can be described as a technique of contract pricing which seeks to determine a realistic price objective which reflects reasonably achievable economies and efficiencies of contractor operations. The Air Force has performed a number of Should Cost studies, each with the stated objective of achieving the desired results contemplated by the above definition. Has the Air Force achieved these results. Up to this point, this question has not been easily answerable since the final cost outcomes have not been available as a basis against which originally negotiated cost targets could be compared. Based upon a limited sample of four contracts which were negotiated using the Should Cost technique, the study showed that Should Cost, as used by the Air Force, may be producing results which are not more effective than those experienced from contracts negotiated using conventional cost analysis. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A016 117 1/3 15/5

COBRO CORP SILVER SPRING MD

RMAC Analysis of CH-47 Helicopter. (U)

DESCRIPTIVE NOTE: Final rept. 1 Jul 74-15 Aug 75.
AUG 75 72P
CONTRACT: DAAJ01-74-C-1025
MONITOR: USAAVSCOM TR-75-38

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Report on Reliability, Maintainability, Availability and Cost (RMAC) Analysis.
DESCRIPTORS: *Helicopters, *Reliability, *Maintainability, *Cost effectiveness, Spare parts, Inventory control, Failure(Mechanics), Maintenance, Costs, Removal, Logistics, Army aircraft (U)
IDENTIFIERS: H-47 aircraft, CH-47 aircraft, *Failure analysis (U)

An in-depth analysis was made of the reliability, availability, maintainability and cost of the CH-47 helicopter. The study was based on available Army documentation of the A, B, and Conversions of the helicopter design: the record of component failures and removals as reflected in the Army's RAMMIT Major Item Removal Frequency (MIRF) reports; the system mission and plan for use; the Disassembly and Inspection Reports cover a engineering assessment of removed faile components; and the costs in material, labor and time stemming from removal/replacement of a component. The analysis was carried out using the Army's computerized 'Analytic Methodology for System Evaluation and Control (AMSEC), together with special techniques and algorithms which were developed as required. The report provides, for the system and for each component of each version, the current RMAC assessment; a cross-comparison between the three versions; an analysis of the impact on RMAC of changes in maintenance plans, or of different costs of mission failure; and an interpretation of DIR information as it bears on RMAC. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7

AD-A016 111 6/8 15/5 14/1

ARMY NATICK DEVELOPMENT CENTER MASS

Uniform Ration Cost System - Summary Report. (U)

DESCRIPTIVE NOTE: Final technical rept.. JUN 75 188P Richardson,R. P. ;Brandler, Philip ;Byrne,Robert J. ;Deacon,Ronald ; Rogozenski,John E. , Jr;
REPT. NO. NDC-TR-75-69-CR/SA
PROJ: 1-T-762724-AH-99-A

UNCLASSIFIED REPORT

DESCRIPTORS: *Food dispensing, *Costs, Feeding, Military rations, Nutrition, Menu, Planning (U)

The objective of this study is to develop a uniform ration cost system (URCS) that is directly related to known consumer requirements and that includes provisions which make possible a more flexible food service management system. A comprehensive analysis of the current DoD ration cost system has been conducted, resulting in the identification of areas of potential improvement. One of these areas, the setting of an appropriate level of feeding for DoD, has involved a quantitative comparison of food utilization in the military with that of comparable civilian organizations. The recommended URCS contains a Uniform Ration Law that incorporates a cost-date standard (i.e., authorized ration cost as of a selected data). The URCS also provides a more flexible approach for formulating a new food cost index that is consistent with the cost-date standard, nutritional standards, and consumer acceptance considerations. The study describes mathematical programming and computer methods for designing the food cost index. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZCMO7

AD-A016 104 19/1 14/1

ARMY ARMAMENT COMMAND ROCK ISLAND ILL COST ANALYSIS DIV

Ammunition Cost Research: Medium-Bore Automatic Cannon Ammunition. (U)

DESCRIPTIVE NOTE: Technical rept.. OCT 75 107P Gannon,Patrick ;George, Celestino ;Halal,Gerald ;Kelener,Kathleen ; Riedesel,Paul ;
REPT. NO. AMSAR-CPE-75-6

UNCLASSIFIED REPORT

DESCRIPTORS: *Ammunition, *Ammunition components, *Cost analysis, Automatic weapons, Cost estimates, Procurement, Production engineering, Statistical analysis (U)
IDENTIFIERS: *Cost estimating relationships, *Cost models (U)

At the complete round level of detail, statistically valid cost estimating relationships (CER's) for independent parametric cost estimates of ammunition investment costs have been difficult to construct. The long life span of ammunition items reduces the number and range of data points available for a given weapon system class (e.g., tank main armament). To counter this problem, a research project has been undertaken to relate physical round performance to component cost farmers. Propellants, projectiles, etc.). The report for medium-bore automatic gun ammunition represents the first of three reports resulting from this project. This report demonstrates how component-level CER's and cost models can be used to independently estimate ammunition investment costs with much greater statistical validity than has been obtained with past approaches. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A016 040 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Model to Predict Final Cost Growth in a Weapon System Development Program. (U)

DESCRIPTIVE NOTE: Master's thesis.
AUG 75 173P Babiarz,Anthony S. ;Giedras, Peter W. ;
REPT. NO. SLSR-49-75B

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Cost analysis, Procurement, Costs, Risk, Uncertainty, Delphi techniques, Mathematical models, Computer programs, Theses, Logistics, FORTRAN (U)
IDENTIFIERS: *Risk analysis, FORTRAN 4 programming language (U)

The increasing cost growth within the DoD military weapon system acquisition process has been the object of attention for many years. With limited resources and shrinking budgets a viable technique to monitor and control cost growth is needed. The reason for cost growth may be related to the elements of uncertainty within a development program. A conceptual model, previously developed to cope with uncertainties in a weapon system acquisition program, was used to determine its applicability for use in the present study. The model relates the concepts of entropy, information, uncertainty and costs in an effort to predict final costs based on a measure of uncertainty. The measure of uncertainty is entropy, or a lack of order in the information available to the program manager. The model attempts to express final development cost as a ratio of initial cost estimates to program entropy. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A016 038 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Simulation of the Reparable Processing Procedures Applicable to Reliability Improvement Warranties. (U)

DESCRIPTIVE NOTE: Master's thesis.
AUG 75 216P Nixon,Harvey L. , Jr.;
Hitchcock,Charles B. ;
REPT. NO. SLSR-36-75B

UNCLASSIFIED REPORT

DESCRIPTORS: *Logistics management, *Cost analysis, Costs, Life cycles, Reliability, Maintainability, Mathematical models, Computer programs, Theses, FORTRAN (U)
IDENTIFIERS: *Life cycle costing, *Reliability improvement warranty (U)

The Reliability Improvement Warranty (RIW) concept is a procurement methodology which is rapidly being implemented in the United States Air Force. Effective use of this concept is contingent on expeditious movement of RIW components between Air Force bases and the contractor. Several reparable processing procedures have been used with varying degrees of success, but there is currently no established technique to aid in determining the optimum processing procedures. The authors conclude that a simulation model has been constructed which can be of assistance to the material manager and procurement officer in selecting an optimum reparable processing procedure. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A015 638 13/10

NAVAL SHIP ENGINEERING CENTER HYATTSVILLE MD SHIP CONCEPT DESIGN DIV

The Impact of Ship Design Margins. (U)

DESCRIPTIVE NOTE: Final rept. 1 May-1 Sep 75.
SEP 75 44P Hockberger,William A. ;
REPT. NO. 6112-082-75
PROJ: S4627
TASK: S4S2701

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval vessels, *Ship structural components, *Cost effectiveness, Cost analysis, Computer aided design, Base lines, Load control, Displacement, Cost benefits (U)
IDENTIFIERS: *Design margins, DD07 model (U)

The previously defined categories of Design and Construction Margins and Future Growth Margins are discussed briefly, and a third major category, Assurance Margins, is introduced and discussed in more detail. The feasibility of reducing margins to reduce ship size and cost is examined. Following a brief discussion of certain significant aspects of a version of the NAVSEC DD07 destroyer computer synthesis model and of the baseline ship used, the results of some computer studies of margin impacts are presented and interpreted. Changes in margins on space, weight, vertical center of gravity and power (propulsion and electrical) are investigated and their impacts expressed primarily as changes in full load displacement and in acquisition cost. The effects of combinations of margins are illustrated, and attempts are made to explain the mechanisms by which interactions occur. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A015 624 15/5 5/1

NAVAL TRAINING EQUIPMENT CENTER ORLANDO FLA TRAINING ANALYSIS AND EVALUATION GROUP

Acquisition Cost Estimating Using Simulation. (U)

DESCRIPTIVE NOTE: Final rept..
SEP 75 29P Okraski,Henry C. ;Parrish, William F. , Jr;
REPT. NO. TAEG-TM-75-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Computerized simulation, Government procurement, Logistics support, Computer programming, Mathematical models, Risk, Uncertainty (U)
IDENTIFIERS: ACES model (U)

Acquisition cost estimates developed as single point values are, at best, misleading and, at worst, impossible to achieve. Single point estimates do not sufficiently reflect the assumptions, judgment or apprehensions of the estimator. This paper deals with a technique for incorporating uncertainty and risk into the acquisition cost estimating procedure such that the estimates are presented as a range of values, encompassing engineering, manufacturing and logistic support estimates. The cost estimating model, a pragmatic application of simulation and classical cost estimating procedures, has been programmed in BASIC and is generalizable and exportable. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A015 517 1/3 15/5

ARMY AIR MOBILITY RESEARCH AND DEVELOPMENT LAB FORT EUSTIS VA EUSTIS DIRECTORATE

Army Helicopter Cost Drivers, (U)

AUG 75 39P Reddick,Harold K. , Jr;
REPT. NO. USAAMRDL-TM-7
PROJ: DA-1-F-262209-AH-76

UNCLASSIFIED REPORT

DESCRIPTORS: *Helicopters, *Life cycles, *Costs, Airframes, Acquisition, Maintenance, Spare parts (U)
IDENTIFIERS: *Life cycle costing (U)

The objective of this investigation is to identify the major high-cost areas, referred to as 'cost drivers', for Army helicopters. The helicopter life-cycle cost is divided into two major areas-acquisition and operating-for breakdown and examination. Acquisition costs, which include R and D and production, generally account for 25 percent of the life-cycle cost. The operating costs, which account for the remaining 75 percent, are examined in terms of maintenance and parts, personnel, and consumables. The helicopter is divided into major subassemblies such as rotor, transmission, and airframe, and each is examined in detail. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A014 950 14/1 15/5

ARMY ARMAMENT COMMAND ROCK ISLAND ILL COST ANALYSIS DIV

Overhaul/Rebuild Cost Study ARMCOM Items, (U)

DESCRIPTIVE NOTE: Technical rept.
MAR 75 47P
REPT. NO. AMSAR-CPE-75-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Repair, *Maintenance, *Logistics planning, *Cost analysis, Economic models, Cost effectiveness, Ordnance, Artillery, Fire control systems, Small arms, Fire control system components (U)
IDENTIFIERS: *Overhaul, *Rebuild, *Ordnance items (U)

Major item historical overhaul/rebuild data, depot labor rates and overhaul cost estimating relationships (CER's) are tabulated in sufficient detail to allow the estimation of overhaul/rebuild cost for ARMCOM-managed items. Item classes addressed in this study are: (1) Artillery; (2) Fire control; and (3) Small arms. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A014 772 15/5 14/1

JOINT AFSC/AFLC COMMANDERS' WORKING GROUP ON LIFE CYCLE COST WRIGHT-PATTERSON AFB OHIO

Analysis of Available Life Cycle Cost Models and Actions Required to Increase Future Model Applications. (U)

DESCRIPTIVE NOTE: Final rept. Mar-Dec 74,
JUN 75 70P Collins,Dwight E. ;
MONITOR: ASD TR-75-25

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Life cycles, *Cost estimates, Mathematical models, Logistics planning, Maintenance, Failure, Logistics support, Accounting (U)
IDENTIFIERS: Life cycle costs (U)

The report presents the results of an effort to survey existing life cycle cost (LCC) models and to gain insight into what actions are needed to increase their use. Eight categories of LCC models are defined: accounting models, economic analysis models, cost estimating relationship models, reliability improvement cost models, level of repair analysis models, maintenance manpower planning models, inventory management models, and warranty models. The report includes an analysis of experience to date, deficiencies and potential applications of representative models within each category. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A014 387 5/3 12/1

KARLSRUHE UNIV (WEST GERMANY)

Isoquants of Continuous Production Correspondences. (U)

75 9P Bol,G. ;Moeschlin,O. ;

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v22 n2 p391-398 Jun 75.
DESCRIPTORS: *Set theory, *Industrial production, *Costs, *Topology, *Economics, *Mapping(Transformations), Input output processing, Mathematical models, Vector analysis, Efficiency, Reprints (U)
IDENTIFIERS: Insoquants (U)

Bol has discussed consequences of the continuity of production correspondences in connection with relations between efficient input and output vectors. Isoquants of continuous production correspondences are used here to extend this work. Simplifications to existing theory are discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A014 385 15/5 14/2 5/1

MONTREAL UNIV (QUEBEC) DEPARTEMENT D'INFORMATIQUE

Periodic Replacement with Minimal Repair at Failure and Adjustment Costs. (U)

75 13P Tilquin,C. ;Cleroux,R. ;

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v22 n2 p243-254 Jun 75.
DESCRIPTORS: *Replacement theory, *Cost effectiveness, *Maintenance management, *Repair, Reliability, Optimization, Operations research, Failure(Mechanics), Naval research, Peprint (U)
IDENTIFIERS: *Adjustment costs (U)

An investigation is made of periodic replacement policies with minimal repair at failure, thereby, minimizing the average expected cost per unit time over an infinite time span. The standard cost structure is modified by the introduction of a term which takes adjustment costs into account. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A014 382 5/3 5/1

DEPARTMENT OF THE INTERIOR WASHINGTON D C

The Static Theory of Transfer Pricing. (U)

75 16P Enzer,Hermann ;

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v22 n2 p375-389 Jun 75.
DESCRIPTORS: *Economics, *Management planning and control, *Cost analysis, *Cost effectiveness, *Commerce, Industrial production, Lagrangian functions, Reprints (U)
IDENTIFIERS: Profits, *Decentralization, *Transfer pricing (U)

An analysis of the literature of transfer pricing is presented. It is shown that, under assumptions that the firm and its divisions have full deterministic knowledge of their costs and demands, some form of average cost is the appropriate transfer price. What happens when a firm adopts an objective other than profit maximization is further examined. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A014 349 14/1 16/4 9/2 15/7

GENERAL RESEARCH CORP SANTA BARBARA CALIF

Cost Estimating Study, an Abstract of Activities Performed in 1974. (U)

DESCRIPTIVE NOTE: Rept. for 1 Jan-31 Dec 74,
FEB 75 6P Flueckiger,W. D. ;
REPT. NO. CR-1-519
CONTRACT: N00014-72-C-0311

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Cost analysis, *Guided missiles, *Naval tactical data systems, *Naval operations, Resources, Parametric analysis, Computer programs, Computers (U)
IDENTIFIERS: *Navy tactical missiles (U)

This report summarizes the cost estimating/cost analysis activities performed for the Office of the Chief of Naval Operations, Systems Analysis Division, Resource Analysis Group. Cost estimating and analysis was provided for Navy tactical missiles and tactical data processing hardware and software. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A014 319 15/5 5/1

MANTECH OF NEW JERSEY CORP ROCKVILLE MD

Executive Summary of the Navy Weapon System Life-Cycle Cost Model (WSCOM'. (U)

DESCRIPTIVE NOTE: Executive summary.
JUL 75 9P Wood,Stephen S. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Life cycles, *Cost analysis, Cost estimates, Management planning and control, Logistics planning, Navy (U)
IDENTIFIERS: Project management (U)

The Navy Weapon System Life-Cycle Cost Model is a generalized user-oriented cost model that calculates and displays system costs in accordance with a Work Breakdown Structure (WBS) or similar hierarchal cost level scheme. It is applicable to any development program in which costs must be monitored and recalculated for frequent changes in cost-related parameters. The model is intended for use by a cost analyst. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A014 209 5/2 5/1

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CALIF

An Approach for Measuring Benefit and Cost in Management and Information Systems. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 74 58P DiGialleonardo,Frank R. ;
Barefoot,David B. ;
REPT. NO. NPRDC-TR-75-21

UNCLASSIFIED REPORT

DESCRIPTORS: *Management information systems. *Cost analysis, Manpower, Planning, Decision making, Mathematical models, Systems analysis, Information theory (U)

A technique is developed for assessing benefit and, to a more limited degree, cost in order to permit meaningful cost-benefit analysis of management and information systems. The technique is most immediately a response to requirements in analyzing a large and complex manpower planning and programming system. It is more generally a response to an apparent gap in existing cost benefit methodology in regard to obtaining useful performance measures in managerial information systems. A model with three prime determinants of benefits is postulated: Potential contribution, Received value, and Utilized value. Other candidate factors are also considered, notably feedback. A methodology for costing inputs and outputs is also developed as an important complement to the benefit measures. Analysis results are presented for preliminary data gathered via a questionnaire. Alternative models for considering the measures are discussed. A plan for detailed analysis of the model using extensive data now being collected, in addition to proposed laboratory experimentation, is presented. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A014 108 17/7 14/1

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (5th) Held at Redondo Beach, California on 19 November 1974. (U)

DESCRIPTIVE NOTE: Final rept.,
NOV 74 80P Stauffer.Russell B. :
REPT. NO. AGMC-74-046

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 19 Aug 74. AD-787 220.
DESCRIPTORS: *Inertial systems. *Life cycles. *Cost analysis. *Meetings. Inertial navigation. Costs. Budgets. Logistics. Spare parts. Management planning and control. Acquisition. Economics (U)
IDENTIFIERS: *Design to cost (U)

These proceedings describe the activities of the fifth quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems held 19-21 November 1974. The proceedings contain the text and slides (where available) of the invited papers and the results of sub group meetings on Charter revisions, creation of LCC Task Group descriptive paper and preparation of input/output specifications for the LCC model under development. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A013 926 15/5 5/1

AIR FORCE AVIONICS LAB WRIGHT-PATTERSON AFB OHIO

Cost-Estimating Relationships Using Linear, Log-linear and Non-linear Regression. (U)

DESCRIPTIVE NOTE: Final rept. Aug 74-Jan 75, APR 75 19P Bilikam,J. E. ;
REPT. NO. AFAL-TR-75-43

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Feb 74, AD-781 132.
DESCRIPTORS: *Cost estimates, *Regression analysis, Radar, Inertial navigation, Computers, Maintenance, Avionics (U)
IDENTIFIERS: *Cost estimating relationships, Log linear density functions (U)

The report addresses the use of weighted regression for linear cost estimating relationships and non-linear regression for log-linear cost estimating relationships with the trends in residual distributions. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A013 802 15/5 5/1

DIRECTORATE OF AEROSPACE STUDIES KIRTLAND AFB N MEX

Handbook for the Implementation of the Design to Cost Concept. (U)

DESCRIPTIVE NOTE: Final rept.. FEB 75 104P Anderson,Richard H. :Dixon, Thomas E. :
REPT. NO. SA-TR-75-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Government procurement, *Cost analysis, *Management planning and control, Systems analysis, Mathematical models, Reliability, Cost effectiveness, Probability (U)
IDENTIFIERS: *Design to cost, *Project management (U)

This report documents various models and methodologies in the form of a practical handbook of management tools. These management tools provide a System Program Manager with the means to do the following on a day-by-day basis: (1) Evaluate current system progress; (2) Identify problem areas associated with various subsystems where corrective actions or additional subsystem options are required; (3) Identify subsystems for which a reduction in performance has a small effect on total system performance and investigate if these subsystems can be replaced by lower cost subsystems with the cost savings invested more effectively in the improvement of other more critical subsystems; (4) Select the combination of subsystem options yielding the maximum total system performance achievable at the Design to Cost goal, i.e., optimal allocation of resources; and (5) Evaluate the effect of any proposed change in system design and its impact on Design to Cost goals. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A013 711 12/1 14/1 12/2

ARIZONA HEALTH PLANNING AUTHORITY PHOENIX

A Mean Cost Approximation for Transportation Problems with Stochastic Demand. (U)

74 8P Wilson,Dan ;

UNCLASSIFIED REPORT

Availability: Pub. in Naval Logistics Quarterly, v22 n1 p181-187 Mar 75.
DESCRIPTORS: *Stochastic processes, *Operations research, *Cost analysis, Transportation, Approximation(mathematics), Models, Algorithms, Costs, Boundaries, Reprints (U)

Among the many tools of the operations researcher is the transportation algorithm which has been used to solve a variety of problems ranging from shipping plans to plant location. An important variation of the basic transportation problem is the transportation problem with stochastic demand or stochastic supply. This paper presents a simple approximation technique which may be used as a starting solution for algorithms that determine exact solutions. The paper indicates that the approximation technique offered here is superior to a starting solution obtained by substituting expected demand for the random variables. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A013 579 17/7 1/5

MITRE CORP MCLEAN VA

Airport Surface Traffic Control Systems Development Analysis - Expanded. (U)

DESCRIPTIVE NOTE: Final rept. Jan 73-Feb 74.
MAR 75 115P Bales,R. A. ;Koetsch,J. F. ;
CONTRACT: DOT/TSC-RA-73-11
MONITOR: FAA-RD,TSC 75-51,FAA-74-26

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Jan 74, AD-773 699.
DESCRIPTORS: *Airport radar systems, *Cost analysis, *Air traffic control terminal areas, Airports, Benefits, Deployment, Surveillance, Search radar, Plan position indicators, Display systems, Traffic, Runways, Taxiways, Visibility, Weather, Aviation safety, Airport control towers (U)
IDENTIFIERS: *ASTC(Airport Surface Traffic Control), *Airport surface traffic control, Benefit cost analysis, DOT/5L, DOT/4CZ/CA (U)

A previous MITRE Technical Report, Airport Surface Traffic Control Systems Deployment Analysis, FAA-RD-74-6, presented an analysis of ASTC (Airport Surface Traffic Control) system requirements and developed estimates of the deployment potential of proposed ASTC system alternatives for 19 air carrier airports. The primary requirement was determined to be improved surveillance which resulted in an estimated deployment of one of two surveillance systems at 16 airports by 1980. This report presents an expansion of that deployment analysis to include a total of 39 air carrier airports. The methods and assumptions for the deployment analysis of the 20 airports presented in this report are essentially the same as in the initial report. The overall result of the analysis is that by the initial deployment date (1976-1980) of the two alternative surveillance systems, the total potential market will be for 20-25 systems. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTRO.. NO. Z0MO7

AD-A013 521 19/1 19/6

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS OFFICE

Cost-Effectiveness Comparison of the Retubed M114 and XM198 Cannon Systems. (U)

DESCRIPTIVE NOTE: Final note.
MAR 75 17P DeArmon,Ira A. ;Northey, Frederick U. ;
REPT. NO. SAO/N-19

UNCLASSIFIED REPORT

DESCRIPTORS: *Howitzers, *Artillery ammunition, *Cost effectiveness, Gun barrels, Firing tests(Ordnance), Targets (U)
IDENTIFIERS: M-198 howitzers(155-MM), XM-198 howitzers(155-MM), M-114 howitzers(8-In.), Gun modification (U)

A comparison was made of the ammo cost on the basis of A Division Force Equivalent (DFE) per combat day in Europe and Korea using the retubed M114 and using the XM198. Results were determined for three conditions, i.e., (1) using the most cost-effective projectiles (all calibers), (2) using 8-inch projectiles only for targets beyond the range of 155mm, and (3) when the 8-inch ICM projectile was unavailable. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A013 514 19/6 19/1 14/1

ROCK ISLAND ARSENAL ILL GENERAL THOMAS J RODMAN LAB

Life Cycle Time and Cost Estimates for Squad Automatic Weapon System Candidates. (U)

JAN 75 392P Schwegler,R. F. :
REPT. NO. RIA-R-TR-75-030

UNCLASSIFIED REPORT

DESCRIPTORS: *Automatic weapons, *Squad level organizations, *Cost estimates, Life cycles, Time, Scheduling, Small arms, Small arms ammunition, Trade off analyses, Prototypes, Fabrication, Industrial production, Data bases, Rifles, Machine guns, Cartridges, Management planning and control, Costs (U)
IDENTIFIERS: *SAWS(Squad automatic weapon system), *Squad automatic weapon system program, Fabrique nationale weapon, 5.56-mm cartridges, 6.00-mm cartridges, 7.62-mm cartridges, XM-235 weapons, M-235 weapons, XM-732 weapons, M-16 rifles(5.56-mm), M-732 weapons, M-16A1 guns(5.56-mm), M-14 guns(cal .30), M-14A1 guns(Cal .30), *Life cycle costs (U)

This report documents for future reference the steps taken to prepare Life Cycle Cost and Schedule Estimates for the Squad Automatic Weapon System (SAWS) Program. All costs are given in FY75 dollars. The body of the report addresses a program which remains in Advanced Development from FY75 until FY77. The period encompassing FY77, FY78 and FY79 is the time frame for Engineering Development. This is followed by a 12 month Limited Production period and a subsequent Full Scale Production period. The Appendix gives the detailed Cost and Schedule Estimates from which the final Trade Off Determinations and Program Costs were derived. Five weapon mechanism concepts and six types of ammunition are approached in a variety of combinations. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A013 477 15/5 13/10

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 75 81P Adityavarna,Georgius Wirawan ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval shore facilities, *Cost effectiveness, *Patrol craft, *Maintenance management, *Naval planning, Indonesia, Naval vessels, Naval logistics, Repair, Logistics planning, Cost estimates, Theses (U)
IDENTIFIERS: *Logistics management (U)

Indonesian naval patrol vessels which are operated in the waters of the Riau Islands (East of Sumatra) must return to their home base at Surabaya for their periodical maintenance and repair. Establishment of a naval base in that area that can provide maintenance and repairs to the patrol vessels could save the time and cost lost in steaming the distance to Surabaya and return. Three prospective sites were considered for potential development as a naval base. From these three sites six alternative base systems were developed. A cost-effectiveness methodology was used for selecting the preferred alternative. The result of the analysis indicated that upgrading the existing facilities at Tanjungpinang to a naval station without maintenance and repair facilities and performing the maintenance and repair of the naval patrol vessels at Surabaya is the most cost-effective base system among the alternatives considered. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A013 369 14/1 17/2.1

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Life Cycle Cost Model. (U)

DESCRIPTIVE NOTE: Final rept..
JUL 75 39P Otto,Thomas W. , Jr;
REPT. NO. ECOM-4338
PROJ: DA-1-S-763707-D-437
TASK: 1-S-763707-D-43707

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Cost analysis, *Radio equipment, Life cycles, Learning curves, Communication and radio systems, Army procurement, Management planning and control, Mathematical models, Computer programs, Tactical communications, Costs (U)
IDENTIFIERS: *Life cycle costs (U)

Recent experience in performing Life Cycle Cost Analyses on single channel tactical radio equipment has shown the need for a complete and computerized LCC model. This report discusses such a model which has been developed by the author. The cost categories and each of their elements are presented initially in broad terms; then the mathematical equations which compute each element are presented. Additionally, a comprehensive discussion of the Learning Curve and various methods of applying it are presented. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A013 362 5/1 14/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

An Overview of DoD Policy for and Administration of Independent Research and Development. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 75 164P Bethel,Howard Emery :
REPT. NO. DSMS-PMC-75-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Research management, *Industrial research, *Costs, Allocations, Department of Defense, Policies, Technology, Law, Military procurement, Cost analysis, Patents (U)
IDENTIFIERS: *Independent research and development, Contractors (U)

Independent research and development (IR/D) is contractor initiated and conducted research and development effort not sponsored by a contract or grant. The DOD recognizes IR/D as a normal cost of business and accepts its reasonable and allocable share of these costs. The allowability of IR/D costs and DOD policy and administration of this area have been and are controversial. This report presents an overview of DOD IR/D policy and administration. The evolution, current status, and major areas of existing controversy are highlighted. Current DOD policy appears to be a reasonable balance of the needs for good stewardship of the taxpayer's funds and the needs for a strong technological base. Major shifts in policy, whether to the more liberal extremes advocated by the industry or the more restrictive extremes advocated by Senator Proxmire and Admiral Rickover, would probably be detrimental to the best interests of the Department of Defense. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A013 258 1/3

RAND CORP SANTA MONICA CALIF

Parametric Equations for Estimating Aircraft Airframe Costs. (U)

MAY 75 120P Large,Joseph P. :Campbell, Harry G. :Cates,David :
REPT. NO. R-1693-PA/E
CONTRACT: DAHC15-71-C-0220

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Feb 72. AD-A012 091.
DESCRIPTORS: *Airframes, *Cost estimates, Scientific research, Labor, Manufacturing, Engineering, Tools, Flight testing, Regression analysis, Accounting, Computer applications (U)

A set of generalized equations for estimating development and production costs of aircraft airframes on the basis of such characteristics as aircraft weight and speed is presented. (Extensive investigation has shown that these characteristics explain cost variations better than any other objective parameters.) Equations derived by multiple-regression techniques are presented for each of the major cost elements, for total program cost, and for prototype development costs. The report explains the derivation of each equation and describes the treatment of the data, the fitting of regression equations, and selection of preferred equations. A detailed numerical example is included which applies to preferred equations and compares the results to those obtained using several sets of alternative equations. 15 (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A013 221 14/1 9/1 20/6

NAVAL ELECTRONICS LAB CENTER SAN DIEGO CALIF

A-7 ALOFT Economic Analysis Development Concept. (U)

DESCRIPTIVE NOTE: Technical document,
JUL 75 70P Ellis,J. R. ;Greenwell,R. A. ;
REPT. NO. NELC/TD-435
PROJ: WF41-X1, NELC-F228
TASK: WF41-X1-001

UNCLASSIFIED REPORT

DESCRIPTORS: *Fiber optics transmission lines, *Avionics, *Cost analysis, *Cost effectiveness, Fiber optics, Economics, Life cycles, Light emitting diodes, Photodetectors, Attack bombers, Jet bombers, Digital systems, Signals, Multiplexing, Data transmission systems, Transmission lines, Electric cables, Interfaces (U)
IDENTIFIERS: A-7 aircraft, ALOFT project, ALOFT(Avionics light optical fiber technology), Avionics light optical fiber technology, Economic analysis (U)

The economic analysis plan will establish the costs and benefits of applying future fiber optic technology to avionic cabling. Component descriptions, interface requirements, and the signal list for the A-7 (ALOFT) system are included to provide the necessary background to perform the economic analysis. (Author) (U)

IAC SUBJECT TERMS: M--(U)COMPRESSION TEST, STRESS STRAIN DATA, ALUMINUM ALLOYS, 2024-T3510, 6061-T6, ARMOR, MODULUS OF ELASTICITY, POISSONS RATIO, PLASTICITY, TENSILE YIELD STRENGTH, 22 C, HARDNESS.;

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A013 171 5/9 15/5

AIR FORCE HUMAN RESOURCES LAB BROOKS AFB TEX

Air Force Human Resources Laboratory Military Personnel Costing Conference. (U)

DESCRIPTIVE NOTE: Final rept. Jan 73-May 74,
DEC 74 49P Baran,H. Anthony ;
REPT. NO. AFHRL-TR-74-106
PROJ: AF-1124
TASK: 112403

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Proceedings of Conference Held 2-3 May 1973 at the AFHRL Advanced System Div., Wright-Patterson AFB, Ohio.
DESCRIPTORS: *Costs, *Military personnel, *Meetings, Life cycles, Systems engineering, Logistics support, Budgets (U)

The conference was the initial step in an R and D project to develop and demonstrate a family of techniques to generate standard personnel cost data for use in: (1) Weapon system design engineering; (2) weapon system life cycle support operations; and (3) personnel/manpower budgeting. It was organized to provide technical guidance in directing the efforts of this project. Representatives from various organizations within Air Force Headquarters, Tactical Air Command, Air Force Systems Command, Air Training Command, Air Force Logistics Command, and the United States Naval Research Laboratory comprised the membership. The objectives were: (1) identify and summarize the various concepts and practices of personnel costing and how they relate to system engineering design, system support, and various command level personnel, manpower, and budgetary activities; (2) identify the 'users' of personnel cost data, their present requirements and uses for it, and their desires for new types or formats of such data; (3) ascertain what has been accomplished by other agencies that could be adapted to satisfy in part/whole the requirements identified in objective 2 and identify work currently in progress which might be applicable; (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A012 809 5/3 21/4 13/10

NATHAN (ROBERT R) ASSOCIATES INC WASHINGTON D C

Petroleum Transportation Systems Study.
Chapter V. Refinery Operating Costs. (U)

DESCRIPTIVE NOTE: Final rept.
APP 75 31P
CONTRACT: DACW31-73-C-0051
MONITOR: IWR Paper-75-P4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supplement to DOT Report: 'Economic Aspects of Refinery and Deepwater Port Location in the United States'(PB-236 701 through PB-236 705). See also Chapter 4, AD-A012 808.
DESCRIPTORS: *Petroleum industry, *Marine terminals, *Refineries, *Cost analysis, Systems analysis, Economic models, Costs, Petroleum products, Production engineering, Profits (U)
IDENTIFIERS: Crude oil, Cost models, *Deepwater terminals, Pipeline transportation, Industry productivity (U)

This part of the study presents the basic analysis of refinery operating costs in the various petroleum refinery districts to be supplied with imported crude petroleum. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A012 807 5/3 21/4 13/10

NATHAN (ROBERT R) ASSOCIATES INC WASHINGTON D C

Petroleum Transportation Systems Study.
Chapter III. Port Costs. (U)

DESCRIPTIVE NOTE: Final rept.
APR 75 173P
CONTRACT: DACW31-73-C-0051
MONITOR: IWR Paper-75-P2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supplement to DOT Report: 'Economic Aspects of Refinery and Deepwater Port Location in the United States'(PB-236 701 through PB-236 705). See also Chapter 2, AD-A012 806 and Chapter 4, AD-A012 808.
DESCRIPTORS: *Petroleum industry, *Marine terminals, *Refineries, *Cost analysis, Systems analysis, Costs, Construction, Marine transportation, Pipelines, Refineries (U)
IDENTIFIERS: Crude oil, Transshipment costs, Cost models, *Deepwater terminals (U)

This part of the study presents the basic analysis of deepwater port construction and operating costs for crude oil. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A012 795 14/1 15/5 5/3

ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA

The Application and Utility of Independent Government Cost Estimates. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 74 53P Correia,Charles A. ;
REPT. NO. APRO-103-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Contracts, *Army procurement, Statistical analysis, Assessment, Cost analysis, Policies, Department of Defense (U)
IDENTIFIERS: IGCE's(Independent government cost estimates), *Independent government cost estimates, Contractor estimates, Government price objectives, Negotiated price, Contracting officer (U)

This report concerns the policy and usage of Independent Government Cost Estimates (IGCE's) throughout the US Army Materiel Command's (AMC) major subordinate commands. A statistical analysis of a representative sample of production contracts is made comparing IGCE's, contractors' estimates, Government's price objectives and negotiated prices. The stuoy objectives are to determine the influence of IGCE's on the price analysis/cost analysis estimates which are used to determine the Government's initial price objective; assess the relationship between the IGCE's and the contractors' proposed price; and determine the most effective method of using the IGCE in the contract cost estimating process. Based upon the analysis and interview with preparers and users of IGCE's, recommendations are made concerning policy and use of IGCE's within AMC. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A012 636 15/5 13/8

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER BETHESDA MD

The Possible Application of Numerically Controlled Manufacturing to Navy Supply System Procurement. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 74 46P Redding,John L. ;Smith, Bradford M. ;
REPT. NO. NSRDC-4600
PROJ: F53-531
TASK: F53-531-005

UNCLASSIFIED REPORT

DESCRIPTORS: *Machine tools, *Production engineering, *Cost analysis, *Naval procurement, Standardization, Inventory control, Naval equipment, Naval vessels (U)
IDENTIFIERS: Numerical control (U)

The study assesses the potential benefits which could be derived by the Navy Ships Parts Control Center (SPCC) by including numerically controlled (NC) machine tool parts programs and documentation with a standard technical data package in the procurement of hard-to-get parts. Parts analyzed were those for which a purchase request had been outstanding for more than 120 days and for which no purchase action had yet taken place. The benefits investigated in this study were the possibilities of reduction in cost and procurement time which could be directly gained by SPCC by using NC technology. The study shows that the procurement problems for the hard-to-get parts and the parts program transfer problems are such that currently it would not be profitable for SPCC to include NC parts programs and documentation with standard technical data packages; thus no direct reduction in procurement time or cost could accrue to SPCC at this time from the use of numerical control technology. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A011 643 15/5 1/3

RAND CORP SANTA MONICA CALIF

Estimating Life-Cycle Costs: A Case Study of the A-7D, (U)

FEB 75 71P Fiorello,Marco ;
REPT. NO. R-1518-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: *Air force procurement, *Attack aircraft, *Cost analysis, *Logistics planning, Acquisition, Forecasting, Cost estimates, Weapon systems (U)
IDENTIFIERS: *Life cycle costing, A-7 aircraft, A-7D aircraft, Logistics management, Force structure planning (U)

The report is concerned with the determination of costs incurred in acquiring and owning a weapon system and the data problems associated therewith. Incurred or historical costs can be used to anticipate future costs of operations and support, to compare forecast with incurred costs for evaluating forecasting techniques, or to estimate a weapon system's total life cycle costs (LCC) for use, along with the associated weapon system capability, in force structure planning. The principal objective of the study is to demonstrate the derivation of the life-cycle cost. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A011 401 5/1 15/5 9/2

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO SYSTEMS ANALYSIS OFFICE

Users Manual: Forecast of Schedule/Cost Status Utilizing Cost Performance Reports of the Cost/Schedule Control Systems Criteria: A Bayesian Approach (FORTRAN IV). (U)

DESCRIPTIVE NOTE: Technical rept.,
MAR 75 32P Barkley,Mark E. ;
REPT. NO. AMSAV-D-75-2
MONITOR: USAAVSCOM TR-74-60

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Jan 73. AD-754 576.
DESCRIPTORS: *Cost estimates, *Contracts, *Department of Defense, Forecasting, Decision making, Scheduling, Bayes theorem, Computer programs, FORTRAN, Statistical analysis, Logistics planning (U)
IDENTIFIERS: Bayesian estimation, FORTRAN 4 programming language (U)

This report presents a computer program of the Bayesian approach to forecasting cost and schedule performance by work breakdown structure as reported by Department of Defense (DOD) contractors. The technique uses the data from a DOD contractor Cost Performance Report as furnished to the Government under the Cost/Schedule Control Systems Criteria. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A011 376 9/2 17/2

CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGEMENT

Cost Tradeoffs Between Local and Remote Computing. (U)

DESCRIPTIVE NOTE: Technical rept.,
JUN 75 11P Lientz,Bennet P. ;
REPT. NO. TR-4
CONTRACT: N00014-67-A-0269-0027, N00014-69-A-0266
PROJ: NR-049-345

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Pub. in Computer Communication Networks, p469-480 1975.
DESCRIPTORS: *Communications networks, Centralized, Cost effectiveness, Message processing (U)
IDENTIFIERS: *Computer networks, Centralization, Benefit cost analysis, Network analysis theory (U)

A major problem in communication networks analysis is to determine the degree of centralization of computer power that is desirable from both an operational and cost/benefit point of view. An example of this problem occurs in a manufacturing complex wherein decisions must be made on the distribution of data, process power, and redundancy. Because of the many parameters involving hardware, system software, and communications, a purely analytical approach is often impractical. The method here is to employ an analytical simulation model to obtain measures of cost, throughput, and response time. After the model itself is examined, focus is placed on several experiments which reveal the superiority of semi-centralized configurations. Application to logistic and manufacturing systems are explored along with the development of a network link construction method. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A011 375 9/2

CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGEMENT

Computer Network Usage -- Cost-Benefit Analysis. (U)

DESCRIPTIVE NOTE: Technical rept.,
JUN 75 19P Lientz,Bennet P. ;
REPT. NO. TR-5
CONTRACT: N00014-67-A-0269-0027, N00014-69-A-0266
PROJ: NR-049-345

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Put in Information Systems and Networks, p 117-131 1975. See also report dated Dec 73, AD-774 740.
DESCRIPTORS: *Communications networks, Cost effectiveness, Integer programming, Mathematical models (U)
IDENTIFIERS: *Computer networks, *Benefit cost analysis (U)

With the establishment of several computation-communication networks several questions arise as to the cost-effectiveness of a network for a particular potential user. Analysis is necessary to determine which software systems can be established and used on a network rather than the internal computer of user's organization. The timings of transitions to the network must also be found. A methodology for cost/benefit analysis is presented. For multiple systems, an extended horizon and restricted resources, an integer programming method is developed. Approximations for planning and a discussion of stability are given. A numerical example is included. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A011 186 15/5

ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA

The Design to Unit Production Cost (DTUPC): Range of Applicability to Development Procurements. (U)

DESCRIPTIVE NOTE: Final rept.,
OCT 74 70P Newlin,Kimrey D. ;Carter, Shirley H.' ;
REPT. NO. PRO-304

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Government procurement, *Army procurement, Scientific research, Weapon systems, Logistics planning, Contracts (U)
IDENTIFIERS: *Design to cost, *Design to unit production cost, Benefit cost analysis (U)

The merits of Design to Unit Production Cost (DTUPC) as a method of procurement are currently being heralded by the Department of Defense and Army. The goal of lower acquisition costs is very appealing. To date only a few contracts which have incorporated DTUPC have been awarded and only limited experience exists at this point in time. The purpose of this study was to determine the applicability of DTUPC to AMC development procurements. The findings of this study indicate that DTUPC provisions should not be applied to development procurements if contract value does not exceed $1 million or projected production contract values do not $4 million. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A011 185 15/5

ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA

Cost Growth: Effects of Share Ratio and Range of Incentive Effectiveness. (U)

DESCRIPTIVE NOTE: Final rept..
JUL 74 56P Launer,Robert L. :
REPT. NO. PRC-007-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Government procurement, *Army procurement, Logistics planning, Cost estimates, Statistical analysis (U)
IDENTIFIERS: *Cost growth, Cost overruns, Cost underruns (U)

This report addresses cost growth problems that have been experienced with CPIF contracts in the Army Materiel Command, especially those problems related to the incentive structure itself. The data base is composed of 53 randomly selected CPIF contracts completed between 1964 and 1971 with initial price of $500,000 or more. The important major findings are that: (a) The use of the most probable cost for target costs (directed by ASPR) as opposed to expected cost, produces about 20 percent contract cost growth. (b) There is a positive correlation between contractor's share of underrun and contractual adjustments and a negative correlation between overrun and the contractor's share for overruns. (c) The contractor's share of underrun and overrun is less than the negotiated share, on the average, while his profit for final costs which are above the upper limit of the range of incentive effectiveness is occasionally far greater than the negotiated minimum profit. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A010 960 15/5 14/4

RAND CORP SANTA MONICA CALIF

Getting 'Real' Data for Life-Cycle Costing. (U)

JAN 75 18P Fiorello,Marco R. :

REPT. NO. P-5345

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Life cycles, *Costs, Estimates, Reliability, Data acquisition (U)

The process of identifying, collecting and using historical data for estimating the life-cycle costs of a weapon system is discussed. The focus is on data-related problems which currently constrain the accuracy and reliability of life-cycle cost estimates. Particular attention is given to the costs of ownership. A case example is provided to illustrate the estimation of life-cycle costs using macro cost data for an operational weapon system. Some of the uncertainties inherent in the data collection and analysis processes are also discussed. Specific recommendations include implementing operationally consistent life-cycle cost estimation procedures, improving weapon system cost visibility in cost data systems, establishing and maintaining a nomenclature directory, implementing better cost allocation rules, anticipation of life-cycle cost decision data requirements, and constructing and maintaining a special data base for life-cycle cost analysis and methodology development. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A009 971 15/3 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The Requirements Determination Process for Naval Weapon Systems: An Organizational Analysis. (U)

DESCRIPTIVE NOTE: Master's thesis.

MAR 75 62P Probst,Lawrence E. :Wilson, Richard A. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Cost effectiveness, *Naval procurement, Military requirements, Research management, Naval planning, Mission profiles, Department of Defense, Acquisition, Naval logistics, Theses (U)

IDENTIFIERS: *Logistics management (U)

The requirements determination process for naval weapon systems should lead to the most cost effective solution to meet perceived defense mission deficiencies. The thesis analyzes current Navy requirements determination procedures and evaluates the effectiveness of recent modifications in correcting previously recognized shortcomings in this portion of the acquisition process. A current weakness identified in the navy procedural organization is the designation of platform-oriented OCNOs as Force and Mission Sponsors. Specific recommendations to correct this deficiency include the realignment of existing OCNO Warfare Areas and Logistics with OCNO Mission Areas which are coincident with the RDT and E Planning Categories of Strategic Deterrence, Sea Control, Projection of Power Ashore and Mission Support. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A009 951 5/1 15/5

ASSISTANT SECRETARY OF DEFENSE (INSTALLATIONS AND LOGISTICS) WASHINGTON D C

Guide for Monitoring Contractors' Indirect Cost. (U)

JUL 74 100P

UNCLASSIFIED REPORT

Availability: Paper copy available from GPO.
SUPPLEMENTARY NOTE: See also report dated Dec 73, AD-772 078.
DESCRIPTORS: *Military budgets, *Contracts, *Cost analysis, Management planning and control, Management information systems, Analysis of variance, Guides (U)
IDENTIFIERS: *Indirect costs, Contract administration, Defense contracts (U)

This Guide is directed toward better control of the indirect costs, or overhead, particularly in those plants which perform major Government contracts. It does not relieve contractor management of its traditional responsibility to manage and control. It does point out what the Government expects of contractor management and how the Government would monitor their efforts. Effective control of indirect costs involves tests of reasonableness, allowability, and allocability. Of these, the tests of reasonableness relates both to the reasonableness of the dollar amount of a cost and to the reasonableness of the contractor's action in incurring the cost. It is essential that those tests be vigorously applied to all costs, including indirect costs which account for a very large portion of the procurement dollars. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A009 931 15/5

ARMY WAR COLL CARLISLE BARRACKS PA

The Higher Costs of Buying Less. (U)

DESCRIPTIVE NOTE: Student essay.
FEB 75 26P Moses,David M. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Department of Defense, *Military procurement, *Costs, Contracts, Scheduling, Spare parts, Standardization (U)

The study examines reduced procurements for materials for the Department of Defense which have caused higher unit prices. Recommendations are provided which would offset the higher costs including use of standard parts, timeliness of procurements and breakout of reprocurements from the prime contractors. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A009 910 5/1 6/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Alcoholism in the Navy: A Cost Study. (U)

DESCRIPTIVE NOTE: Master's thesis,
MAR 75 102P Sanders,Robert Tracy :

UNCLASSIFIED REPORT

DESCRIPTORS: *Alcoholism, *Naval personnel, *Cost analysis, Management information systems, Costs, Classification, Reviews, Statistical data, Treatment, Prevention, Questionnaires, Damage, Time, Losses, Education, Theses (U)
IDENTIFIERS: Recommendations (U)

The primary objective of this thesis is to estimate a lower limit of costs which are associated with the Naval alcoholic. The costs are estimated in four specific areas: damage and loss of Navy property, loss of work due to medical problems, loss of work due to drinking patterns, and legal and administrative expenses. Such an estimate should be useful in more accurately calculating the savings involved when conducting cost analyses in the future. (U)

AD-A009 910
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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A009 907 13/10 5/1 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The Organizational Impact of C/SCSC Upon the Supervisor of Shipbuilding. (U)

DESCRIPTIVE NOTE: Master's thesis,
MAR 75 93P Fitzgibbons,Thomas Arthur :

UNCLASSIFIED REPORT

DESCRIPTORS: *Shipbuilding, *Management planning and control, *Costs, *Naval logistics, Naval planning, Contracts, Scheduling, Standards, Skills, Training, Logistics planning, Theses (U)
IDENTIFIERS: *Logistics management (U)

Developing a management control system that will meet the needs of the government and its contractors has been a difficult task, particularly in shipbuilding. Only two Supervisors of Shipbuilding, SUPSHIPS Bath and Groton, have been involved with the implementation of the Cost/Schedule Control Systems Criteria on a major shipbuilding contract. The approach taken by each was quite different, and both differed from the NAVSEA suggested approach. These approaches are analyzed and measured against skill and training standards outlined by the Joint Logistic Commanders, in order to determine the advantages and disadvantages of each. Lastly, an approach is recommended to NAVSEA and SUPSHIPS which incorporates the lessons learned. (U)

AD-A009 907
UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A009 844 14/1 15/3 15/5

RAND CORP SANTA MONICA CALIF

An Appraisal of Logistics Support Costs Used in the Air Force IROS Program. (U)

DESCRIPTIVE NOTE: Interim rept.,
FEB 75 53P Fiorello,Marco ;Dey,Patricia Konoske ;
REPT. NO. R-1569-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Weapon systems, *Logistics support, *Air Force procurement, Attack bombers, Reliability, Life cycles, Costs, Acquisition, Logistics planning, Department of Defense, Systems management, Systems engineering, Air Force logistics command (U)
IDENTIFIERS: *Logistics management, IROS(Increase Reliability of Operational Systems), Increase reliability of operational systems, A-7D aircraft, A-7 aircraft (U)

The report evaluates the KO51 logistic support cost reports used by the Air Force Increase Reliability of Operational System (IROS) program. This program, in an effort to increase the reliability of operational systems, collects detailed cost data from these reports on weapon systems and subsystems. The KO51 cost reports were assessed by comparing their costs to reference costs from other data collection systems at the base and depot levels, for the Air Force Corsair II. It is seen that the KO51 reports do not reflect certain pertinent support costs, such as costs for weapon system aerospace ground equipment, maintenance, modification hardware, and certain spares; even in those categories for which the KO51 reports do provide costs, they are reported incompletely and in a disproportionate manner. Recommendations are made for correcting and extending the IROS KO51 reports. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A009 576 17/4

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Cost Estimating Relationships for Naval Surface Ship Electronic Warfare Equipment. (U)

DESCRIPTIVE NOTE: Master's thesis,
MAR 75 43P Moore,Raymond Edward . III:

UNCLASSIFIED REPORT

DESCRIPTORS: *Electronic warfare, *Cost estimates, Electronic equipment, Naval vessels, Cost analysis, Theses (U)

The study addresses the problem of estimating the development, procurement, and installation costs of surface ship electronic warfare equipment of the future. The Cost Estimating Relationships (CERs) were developed using the following factors: year of development, weight, volume, sensitivity, power output, gain, complexity and dummy variables for active equipment, equipment designed for large ships and one for those designed for small ships. Cost estimates are made for three systems presently under development by Raytheon Company and Hughes Aircraft Company under a design-to-price program. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A009 189 15/5 5/1 19/3

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

The Concept of Life Cycle Costing Applied to the MICV Project. (U)

DESCRIPTIVE NOTE: Final rept..
MAR 75 48P Tutka,James L. :
REPT. NO. USAMC-.TC-02-08-75-229

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost estimates, *Life cycles, *Combat vehicles, *Contract administration, Contracts, Reliability, Mathematical models (U)
IDENTIFIERS: *Indifference contracting, Life cycle costing (U)

The study presents a new combination of Life Cycle Costing and Linear Indifference based on the MICV (Mechanized Infantry Combat Vehicle) project. A payment plan, based directly on the mean miles between failure, will be utilized in the program. With the establishment of the contracting plan, the consumer is rendered indifferent to the reliability of the product. (U)

UNCLASSIFIED

CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A009 183 5/1 15/5

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

Managing Cost Overrun Engineering Change Proposals. (U)

DESCRIPTIVE NOTE: Final rept..
APR 75 33P Mariutto,William F. :
REPT. NO. USAMC-ITC-02-08-74-211

UNCLASSIFIED REPORT

DESCRIPTORS: *Military procurement, *Cost estimates, Contracts, Regression analysis, Mathematical models, Mathematical prediction (U)
IDENTIFIERS: *Cost overruns (U)

This research report examines data collected representing cost estimates for engineering changes and the actual cost of the change. It gives a picture of the outcome of the present method of approval authority at the United States Army Electronics Command. The history of past cost estimates is reviewed and by use of regression analysis an attempt is made to control possible cost overruns in the future. This data revealed a serious deffiency in certain areas and a recommendation is made to revise the present method to try to reduce the serious cost overruns that occurred. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A009 120 15/5

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Analysis of Proposed Stock Range Rules. (U)

APR 75 50P Engelman,J. L. ;
REPT. NO. 118
PROJ: FMSO-971190

UNCLASSIFIED REPORT

DESCRIPTORS: *Inventory control, *Naval procurement, *Cost effectiveness, *Logistics planning, Operations research, Systems analysis, Mathematical models, Naval planning, Logistics support, Department of Defense, Policies, Naval logistics (U)
IDENTIFIERS: *Stock level control, *Logistics management (U)

The provisioning process at the Inventory Control Points of the various services are thought to be the source of much excess stock. The Department of Defense has recently issued policy on the range determination. The cost equation considers the costs to stock with no demand, to stock with demand, and to satisfy demand for non-stocked items. Alternate models are permitted if time-weighted requisitions short is a consideration in the model. The Navy in the recent past developed such a model. The study compares performance of the Navy model, the DOD model, and current rules used at a Navy Inventory Control Point. The Navy model was more cost-effective than the DOD model, but neither model attained the response time of current rules. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A009 096 15/5 6/8

ARMY NATICK LABS MASS

The Development of Alternative Food Cost Indexes. (U)

DESCRIPTIVE NOTE: Technical rept.
NOV 74 80P Brandle ;
REPT. NO. USA-NLABS-TR-75-67-O...
PROJ: DA-1-T-762713-AJ-45
TASK: 1-T-762713-AJ-450

UNCLASSIFIED REPORT

DESCRIPTORS: *Food, *Cost analysis, *Department of Defense, Food dispensing, Systems analysis, Military rations, Menu, Dining halls (U)

A number of different methods have been developed and evaluated for creating a Food Cost Index (FCI). Pending passage of a Uniform Ration Law (URL), it is recommended that a food subgroup type FCI be formulated consistent with the provisions of the existing Navy Ration Law (NRL) and with actual military food utilization patterns. After the adoption of a new URL, an improved FCI should be formulated using a least squares technique applied to the latest military food utilization data. A reference menu approach for determining the Basic Daily Food Allowance (BDFA) should also be further developed and evaluated. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A009 074 15/5 13/8

RAND CORP SANTA MONICA CALIF

Production Rate and Production Cost. (U)

DEC 74 74P Lange,Joseph P. ;Hoffmayer, Karl ;Kontrovich,Frank ;

REPT. NO. R-1609-PA/E
CONTRACT: DAHC15-71-C-0220

UNCLASSIFIED REPORT

DESCRIPTORS: *Military equipment, *Production rate, *Cost estimates, Labor, Learning curves, Statistical analysis, Aircraft, Guided missiles (U)
IDENTIFIERS: Design to cost (U)

This study examines the effect of production rate on the cost of selected types of military hardware. It was assumed that production rate and unit cost varied inversely; and if that could be established, it was hoped that an estimating model could be developed that would express that relationship for various elements of cost. The analyses described here suggest that the effect of production rate on manufacturing labor, manufacturing materials, tooling, and engineering cannot be predicted with confidence. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A007 467 15/6

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

A Cost/Benefit Matrix Model of Nuclear Deterrence. (U)

DESCRIPTIVE NOTE: Master's thesis.
MAR 75 57P Barbero,Mark ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Nuclear warfare, *Deterrence, *Cost analysis, Military strategy, National defense, Nuclear weapons, Decision making, Theses (U)
IDENTIFIERS: *Nuclear deterrence, *Cost benefit analysis, *First strike capability (U)

This thesis develops a cost/benefit matrix model of deterrence processes. The model is designed to assist analysis of complex multi-nation interactions when an issue vital to the national survival of each participant is in the balance. A variety of interactions are examined using the model to determine if deterrence exists. The analysis of the various interactions results in the conclusion that deterrence exists when an assured destruction capability exists. Further, deterrence is lost in certain cases when the assured destruction capability is not maintained. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A007 437 15/5

PLANNING RESEARCH CORP MCLEAN VA

Navy Reliability and Maintainability Policy Study. (U)

DESCRIPTIVE NOTE: Final rept. Jun 71-Feb 74,
AUG 74 176P Bloomquist,Charles E. ;
Grainger,George R. ;Poland,James R. ;Reardon,
Francis P. ;
REPT. NO. PRC-R-1810
CONTRACT: N00014-72-C-0007

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval equipment, *Maintainability, *Reliability, Life cycles, Cost analysis, Logistics support, Cost effectiveness, Ship auxiliary equipment, Ship structural components (U)
IDENTIFIERS: Life cycle costing (U)

This report covers the investigation of all major reliability, maintainability, and availability (RM&A) policies that affect the aquisition of hull, mechanical, and electrical equipments for the Navy. Acquisition includes all life-cycle phases from concept formulation through equipment disposal. Emphasis is placed on RM&A policies during all the design phases, the maintenance/overhaul phase, and the redesign phase. In addition, data systems used to monitor the effectiveness of the equipments, as well as the analytical techniques used to manipulate the data to provide RM&A indices, are examined. Personnel training policies are also investigated. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A007 287 15/5

DEFENSE LOGISTICS STUDIES INFORMATION EXCHANGE FORT LEE VA

Commodity Type as a Factor in Contract Cost Growth. (U)

JUN 74 30P Murtagh,Brian N. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Army procurement, *Contracts, *Cost analysis, *Logistics planning, Army equipment, Costs, Logistics support, Theses (U)
IDENTIFIERS: *Logistics management, *Cost growth, Price changes (U)

The Army Procurement Research Office (PRO), Institute of Logistics Research, U.S. Army Logistics Management Center, has conducted a number of studies to determine the causes of contract cost growth in Army procurements. The study is based on the data used in a May 1973 report. Whether the commodity type effects contract type or the results of the contract in relation to price change was investigated. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A007 125 5/1

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

A Product Improved Method for Developing a Program Management Office Estimated Cost at Completion. (U)

DESCRIPTIVE NOTE: Research rept.. JAN 75 58P Holeman,J. B. , Jr:

UNCLASSIFIED REPORT

DESCRIPTORS: *Management planning and control. *Cost estimates. Budgets. Government procurement. Department of Defense (U)
IDENTIFIERS: *Project management (U)

This booklet describes a product improved method for developing a DOD program management office (PMO) estimated cost at completion (EAC). The technique was developed to assist the PMO in checking the reasonableness of the EAC provided by contractors validated under the cost/schedule control systems criteria (C/SCSC). The booklet itself was designed and written to be used at the working level by PMO members of the program control/ management division or the business/finance office. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A007 121 19/1

ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY ABERDEEN PROVING GROUND MD

A Logistic/Cost-Effectiveness Model for Flares. (U)

DESCRIPTIVE NOTE: Technical rept.. FEB 75 52P Sheldon,John F. :
REPT. NO. AMSAA-TR-103
PROJ: DA-1-T-765706-M-541

UNCLASSIFIED REPORT

DESCRIPTORS: *Flares. *Cost effectiveness. *Logistics planning. *Night warfare. Mission profiles. Tactical warfare. Military procurement. Computerized simulation. Computer programs. Area coverage. Intensity. Cost estimates. Illumination (U)
IDENTIFIERS: *Logistics management (U)

The model establishes a quantitative criterion for the cost and logistic numbers of flares necessary to satisfy the need for light to see and engage enemy targets at night. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A007 064 15/5

RAND CORP SANTA MONICA CALIF

Directed Licensing: An Evaluation of a Proposed Technique for Reducing the Procurement Cost of Aircraft. (U)

DEC 74 145P Carter,Gregory A. :
REPT. NO. R-1604-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: *Air force procurement, *Military aircraft, *Cost analysis, Contracts, Agreements, Costs, Reduction, Logistics planning (U)
IDENTIFIERS: *Directed licensing, *Competitive bidding, *Logistics management (U)

The study evaluates the feasibility of introducing price competition into military aircraft procurement by the technique of 'directed licensing,' whereby the Government obtains from a weapon system developer, a commitment for rights to production data and an agreement to license whomever the Government designates. Case studies of related types of aircraft procurement are presented, showing that competitive bidding has resulted in substantial savings as compared to sole-source procurement. Techniques for moving aircraft production from one manufacturer to another are described to indicate the technical feasibility of the directed licensing concept, and a minimum-risk way in which directed licensing could be tried is outlined. Although this study focuses on aircraft procurement, the results should be equally applicable to procurement of other complex weapon systems. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A006 783 15/5

CENTER FOR NAVAL ANALYSES ARLINGTON VA INST OF NAVAL STUDIES

Estimating the Marginal Balance of Payments Cost of Overseas Homeporting. (U)

DEC 74 22P Stoloff,Peter H. :Aucella, John P. :McKinley,Harold H. , Jr.:Auzmack, Richard A. :
REPT. NO. CRC-271
CONTRACT: N00014-68-A-0091

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval vessels, *Costs, *Naval personnel, *Logistics planning, Overseas, Maintenance, Military facilities, Logistics support, Cost analysis, Naval logistics (U)
IDENTIFIERS: *Balance of payments, *Overseas homeporting, *Logistics management (U)

A procedure for estimating the balance of payments cost of overseas homeporting is developed. Planning factors based on recent overseas homeporting experience are provided, in tabular form. By specifying certain characteristics of the overseas homeporting program, such as the ships to be homeported, the area, and the availability of base support, Navy planners can choose the appropriate planning factors to use in the estimation procedure. An application of the procedure using planning factors is shown. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A006 508 5/2 ;5/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Designing a Manual Cost Data Base. (U)

DESCRIPTIVE NOTE: Final rept.,
FEB 75 29P Stephenson,Hal W. ;
REPT. NO. TROSCOM-TR-75-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Costs, *Data bases, Indexes, Libraries, Information retrieval, Data processing, Manual operation (U)

A six-step method for designing a manual cost data base is presented in this report. Indexes and sections of use in a cost data base are defined. An example is given. Prototype forms for eight indexes, an accession logbook and an abstract logbook are illustrated. The description is sufficiently detailed so a military organization with significant cost research activities could adapt the system to its own needs. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A006 505 1/3

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Optimization of the Time Between Aircraft Overhauls by Minimizing Maintenance Cost. (U)

DESCRIPTIVE NOTE. Final rept.,
JAN 75 70P Smith,Shirley J. ;Gaffney, Florence A. ;Schulze,Billy R. ;Fox,D. Frank ;Stone,Blaine T. ;
REPT. NO. USAAVSCOM-TR-74-53

UNCLASSIFIED REPORT

DESCRIPTORS: *Army aircraft, *Maintenance, *Cost analysis, Life cycles, Costs, Mathematical models, Optimization (U)

The purpose of the study was to investigate the feasibility of determining when an aircraft should be overhauled in order to minimize the life time maintenance cost of the aircraft. It was assumed that the cost of field maintenance increases as the aircraft's flight hours increase. Also, it was assumed that following an overhaul the cost rate drops significantly, then increases again until an overhaul. The total life time maintenance cost is the sum of all field maintenance costs and all overhaul costs. Then, the optimum time between overhauls was found as that time for which the life time maintenance cost is a minimum. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A006 344 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Cost-Estimating Relationships for Predicting Life-Cycle Costs of Inertial Measurement Unit Maintenance. (U)

DESCRIPTIVE NOTE: Master's thesis,
JAN 75 92P Lynch,Lynn M. ;Raymond, Neil V. ;
REPT. NO. SLSR-13-75A

UNCLASSIFIED REPORT

DESCRIPTORS: *Inertial navigation, *Maintainability, *Cost estimates, *Inertial measurement units, Life cycles, Mathematical models, Maintenance, Theses (U)

A major problem to life cycle cost planners is the scarcity of tools available for use in the conceptual phase of system design and acquisition that accurately predict operational and support costs. This thesis developed a cost-estimating relationship (CER) that predicts maintenance costs of inertial measurement units (IMUs) using only design and policy data that would be available to planners in the conceptual phase of weapon system acquisition. The cost estimated is the average quarterly maintenance cost per aircraft. The estimating variables are selected based on two criteria: (a) Is the variable one that, viewed logically, would affect maintenance costs. (b) Is the variable one that would be known to planners in the conceptual phase of weapon system acquisition. The CER was developed by the ordinary least squares method of multiple regression analysis. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A006 341 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Economic Model to Determine Costs when Intermediate Level Repair Uses Remotely Located Automatic Test Equipment. (U)

DESCRIPTIVE NOTE: Master's thesis,
JAN 75 112P Garrett,James T. , Jr.;
Gentry,Neal W. ;
REPT. NO. SLSR-13-75A

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force equipment, *Maintenance, *Cost analysis, Jet fighters, Repair, Maintenance equipment, Field equipment, Logistics support, Theses (U)
IDENTIFIERS: *Maintenance concept, F-15 aircraft (U)

Since the 1950's, the Air Force has recognized the advantages and flexibility of repairing items at the base or intermediate level. However, over the past few years the increased complexity and sophistication of modern weapon systems has brought about the advent of complex and expensive automated test equipment. In order to maintain the advantages of intermediate repair, the expensive test equipment had to be procured for and maintained by the individual operating bases; thus producing a very high life cycle cost. In an effort to reduce cost in the face of austere funding, a study was conducted to determine the economic feasibility of centralizing the automatic test equipment. (U)

AD-A006 335 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Evaluation of Proposed Criteria to be Used in the Selection of Candidates for Reliability Improvement Warranties. (U)

DESCRIPTIVE NOTE: Master's thesis.
JAN 75 118P Dunn,Payton E. Jr.;
Oltyan,Andrew W. ;
REPT. NO. SLSR-7-75A

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force equipment, *Maintenance, *Cost analysis, Air Force procurement, Life cycles, Costs, Contracts, Theses (U)
IDENTIFIERS: *Life cycle costing (U)

As DOD's percentage of the budget continues to decline, there is an increasing need to get more for the defense dollar. One way to achieve this objective is through the use of Reliability Improvement Warranties (RIW). The RIW calls for a total repair contract based on a predetermined Mean Time Between Failure (MTBF). The contractor to whom the contract is let can realize increased profits by increasing the MTBF of the item. He does this by initiating 'No Cost' Engineering Change Proposals which will increase item performance and reliability. The study was designed to survey the existing population of items covered by a RIW to determine what characteristics they had in common. (U)

AD-A006 214 15/5

ARMY MATERIEL COMMAND ALEXANDRIA VA

AMC Guide for Design to Unit Production Cost (DTUPC). (U)

DEC 74 80P

UNCLASSIFIED REPORT

DESCRIPTORS: *Army procurement, *Production control, *Cost analysis, Industrial production, Contracts, Contract administration, Cost estimates, Logist (U)
IDENTIFIERS: *Design to cost, *Design to unit production cost, *Contract proposals, *Cost reduction (U)

The purpose of this guide is to provide assistance to those functional activities of the US Army Materiel Command (AMC) charged with the responsibility of estimating, applying, and/or controlling the design-to-cost concept. It is particularly concerned with the establishment of unit cost goals in development contracts as design parameters for production of hardware items. These specific development contract values managed by AMC are referred to as Design To Unit Production Cost (DTUPC) goals. This guide supplements basic information provided in the Joint Logistics Commander' conceptual guide on design-to-cost published October 1973. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A006 205 15/5

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO SYSTEMS ANALYSIS OFFICE

A Cost-Effectiveness Model, Choice through Preferences. (U)

DESCRIPTIVE NOTE: Technical rept.,
FEB 75 46P Ross,Frank W. ;
REPT. NO. AMSAV-D-74-20
MONITOR: USAAVSCOM TR-74-51

UNCLASSIFIED REPORT

DESCRIPTORS: *Military supplies, *Decision making, *Cost effectiveness, Logistics, Costs, Military procurement, Delphi techniques, Trade off analyses (U)
IDENTIFIERS: Benefit cost analysis (U)

A cost-effectiveness model is developed where a constrained minimum solution defines the appropriate choice of systems and system designs. A significant advantage of this model over existing ones is the measurement of effectiveness by an ordinal preference function. This function describes the preferences of decision-makers for various design characteristics as implied by the Delphi Method. The technique should find important application in areas where selections must be made among various systems and system designs. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A005 426 1/3 14/1

GENERAL DYNAMICS SAN DIEGO CALIF CONVAIR AEROSPACE DIV

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume II. Supporting Design Synthesis Programs. (U)

DESCRIPTIVE NOTE: Technical rept. Jul 72-Dec 73.
SEP 74 73P Kenyon,R. E. ;
CONTRACT: F33615-72-C-2033
PROJ: AF-1368
TASK: 136802
MONITOR: AFFDL TR-73-129-Vol-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-783 639.
DESCRIPTORS: *Aircraft, *Airframes, *Cost estimates, Costs, Cost analysis, Aerodynamic control surfaces, Structural members, Computer programming (U)
IDENTIFIERS: Design to cost, Cost estimating relationships, Design synthesis, APAS computer program (U)

This volume describes the supporting programs used in conjunction with a cost estimating program to provide a trade study cost estimating technique for aerodynamic surfaces. The supporting programs for the purpose of this discussion are defined as a structural synthesis program and a secondary structure synthesis program. The structural synthesis program is used for the analysis of primary structure and is called APAS (Automated Program for Aerospace-Vehicle Synthesis). The secondary structure synthesis program estimates geometry and weights, and performs parts definition for the aerodynamic surface leading edge, trailing edge, and tip components. The cost estimating adaptation is derived from programs originally developed under Independent research and development. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A005 298 5/9

COOPER AND CO STAMFORD CONN

Evaluation of Methodology for Estimating the Cost of Air Force On-the-Job Training. (U)

DESCRIPTIVE NOTE: Final rept. Oct 73-Jun 74, NOV 74 60P Samers,Bernard N. ;Dunham, Alan D. ;Nordhauser,Fred ;
CONTRACT: F41609-72-C-0048
PROJ: AF-2077
TASK: 207703
MONITOR: AFHRL TR-74-73

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 1974, AD-785 141.
DESCRIPTORS: *Job training, *Cost analysis, Air Force training, Models, Surveys (U)
IDENTIFIERS: On job training (U)

The report describes the final phase of a study directed at the development of an on-the-job training (OJT) costing methodology. Utilizing a modification of survey techniques tested and evaluated during the previous phase, estimates were obtained for the cost of OJT for airman training from the 1-level (unskilled) to the 3-level (semi-skilled) in five category B Air Force specialties. The specialties studied were pavement maintenance (551X0); fire protection (571X0); food service (622X0); fuel service (631X0); and material facilities (647X0). The cost per graduate of OJT for these specialties was compared to the cost per graduate of resident school technical training. Supervisors were surveyed to determine if there was a difference in performance between OJT and technical school graduates in these AFSCs. Conditional cost models were also formulated and tested. The conditional cost models are based on an alternative or opportunity cost concept and represent a refinement of the original cost models. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A004 841 9/2 15/5

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

Automatic Data Processing Costs in the Defense Department. (U)

DESCRIPTIVE NOTE: Final rept. Feb-Sep 74, OCT 74 70P Fisher,David A. ;
REPT. NO. P-1046
CONTRACT: DAHC15-73-C-0200
MONITOR: IDA/HQ 74-16529

UNCLASSIFIED REPORT

DESCRIPTORS: *Data processing, *Department of Defense, *Cost analysis, Costs, Computer programming, Data processing equipment, Government procurement, Rental equipment, Contracts, Maintenance (U)
IDENTIFIERS: *Cost estimates (U)

This paper is concerned with the cost of providing automatic data processing (ADP) services in the Department of Defense. Available cost information for ADP systems in DOD is collected, major components of those costs are identified, the costs are partitioned among computer hardware, software and other ADP, certain trends are identified, and an estimate of total annual ADP costs in DOD is made. Total annual ADP costs are estimated at $6.2-$8.3 billion or 30%-50% of all electronics expenditures in DOD. Software accounts for about 45% of all ADP costs and one-third of the ADP man-years. In the last five years the number of reported DOD computer systems has increased 28%, but the number reporting costs has declined, resulting in no increase in reported costs. Over the last five years there has been a shift from use of in-house ADP personnel toward contract services, and from rental to purchase of ADP equipment. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A004 568 12/1 5/3 5/9

CALIFORNIA UNIV LOS ANGELES WESTERN MANAGEMENT SCIENCE INST

Optimal Consumption with a Stochastic Income Stream. (U)

DESCRIPTIVE NOTE: Interim rept.,
74 15P Miller,Bruce L. ;
CONTRACT: AF-AFOSR-2349-72
PROJ: AF-9769
TASK: 976905
MONITOR: AFOSR TR-75-0079

UNCLASSIFIED REPORT

Availability: Pub. in Econometrica, v42 n2 p253-266, Mar 74.
DESCRIPTORS: *Stochastic processes, *Costs, *Labor, Mathematical models, Distribution functions, Mean, Economics, Risk, Investments, Optimization, Budgets, Probability, Reprints (U)
IDENTIFIERS: *Interest rates, Utility functions, Riskless investment (U)

A infinite horizon consumption model is considered where the labor part of income is random. An upper bound on optimal consumption is obtained by considering the expected value of the optimal return function in the deterministic labor income case. This upper bound on consumption is easily shown to be lower than the value of optimal consumption in the case where the random labor income is replaced by its mean. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A003 922 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

Army Inventory Cost Parameters. (U)

DEC 74 88P Kaiser,Robert D. ;Boisseau, H. J. ;
REPT. NO. LMI-74-15
CONTRACT: SD-321
PROJ: SD-321-22

UNCLASSIFIED REPORT

DESCRIPTORS: *Army procurement. *Cost analysis. *Logistics support. Inventory control. Mathematical models. Regression analysis. Cost estimates. Policies. Material. Maintenance. Repair. Inflation(Economics) (U)
IDENTIFIERS: *Logistics management. Stock level control. Computer aided analysis (U)

The study establishes values for cost-to-order and cost-to-hold at Army Direct Support Units (DSUs) handling Class IX (Repair Parts) items. It also includes detailed procedures by which the Army may update those parameters. It recommends that the Army introduce a new constraint policy for setting reorder quantities at DSUs. and that the value of the cost-to order parameter be adjusted annually for inflation. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A003 905 15/5

NAVAL WEAPONS ENGINEERING SUPPORT ACTIVITY WASHINGTON D C

Navy Weapon System Life-Cycle Cost Model. (U)

SEP 74 133P Opresko,Gregory A. ;
REPT. NO. NAVWESA-R-746

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Naval procurement, *Cost analysis, *Logistics support, Life cycles, Mathematical models, Systems engineering, Cost estimates, Logistics planning (U)
IDENTIFIERS: *Logistics management (U)

The Navy Weapon System Life-Cycle Cost Model is a generalized user-oriented cost model that calculates and displays system costs in accordance with a Work BreakDown Structure (WBS) or similar hierarchal cost level scheme. It is applicable to any development program in which costs must be monitored and recalculated for frequent changes in cost-related parameters. The model is intended for use by a cost analyst. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A003 436 15/5

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Operating and Support Costing Guide: Army Weapon Systems. (U)

DEC 74 32P

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Army procurement, *Cost analysis, *Logistics support, Cost estimates, Life cycles, Logistics planning (U)
IDENTIFIERS: *Logistics management (U)

The guide provides an ASARC/DSARC/CRAIG framework for review of major weapon system life cycle operating and support (O and S) cost estimates. It presents standard O and S cost elements, a standard approach to estimating O and S costs and a standard approach to documenting the cost estimates derived. This guide formalizes the procedures for O+S costing throughout the Army cost analysis community. It reflects the cost elements and methodologies to be used by HQDA in analyzing weapon system O and S cost estimates prepared by subordinate commands. Because it is conceptually related to the CAIG O and S Guide, the guide will be used as the basic O and S costing terms of reference before the CAIG. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A003 354 1/3 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Joint Generalized Least Squares Applied to Cost Estimation for Fighter Aircraft. (U)

DESCRIPTIVE NOTE: Master's thesis,
DEC 74 103P C'Brien,Patrick W. ;
REPT. NO. GSA/SM/74D ,

UNCLASSIFIED REPORT

DESCRIPTORS: *Jet fighters, *Cost estimates, *Least squares method, Avionics, Airframes, Jet engines, Cost analysis, Theses (U)
IDENTIFIERS: F-100 aircraft, F-101 aircraft, F-102 aircraft, F-104 aircraft, F-105 aircraft, F-106 aircraft, T-38 aircraft, F-4 aircraft (U)

Joint Generalized Least Squares is an extension of least squares techniques which decreases statistical uncertainty in derived regression equations. The technique is applied to historical costs for airframes, avionics, and engines in fighter aircraft. A comparison is made of parametric cost estimating relationships derived using ordinary and Joint Generalized Least Squares to demonstrate reductions in statistical uncertainty. (U)

AD-A003 354 UNCLASSIFIED PAGE 332

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A003 353 1/3 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

Cost Estimating Relationships for Procurement Costs of Airborne Digital Computers and Inertial Measurement Units for Use in Remotely Piloted Vehicles. (U)

DESCRIPTIVE NOTE: Master's thesis,
DEC 74 80P Funkhouser,Kenneth V. ;
REPT. NO. GSA/SM/74D-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Remotely piloted vehicles, *Avionics, *Cost estimates, Digital computers, Inertial measurement units, Procurement, Costs, Theses (U)
IDENTIFIERS: *Cost estimating relationships (U)

Parametric cost estimating relationships (CER's) are developed to predict procurement costs of airborne digital computers and inertial measurement units which are suitable for use in remotely piloted vehicles (RPV's). The CER's predict first unit recurring cost in 1974 dollars and can be incorporated with an appropriate learning curve to estimate average cost for a given production quantity. A brief discussion of a computerized parametric cost estimation technique, the RCA PRICE model, is provided to compare methodology, input requirements, and output. The predictive capabilities of the RPV CER's are compared to avionics procurement CER's developed by the Air Force Avionics Laboratory. The RPV CER's are generally more accurate than the AFAL CER's when procurement costs of equipment usable in remotely piloted vehicles are being estimated. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A003 352 1/3 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

An Extension of Cost Estimating Relationships for Airframes of Remotely Piloted Vehicles. (U)

DESCRIPTIVE NOTE: Master's thesis,
DEC 74 127P High,James D. ;Rose,Howard C. ,Jr;
REPT. NO. GSA/SM/74D-5

UNCLASSIFIED REPORT

DESCRIPTORS: *Remotely piloted vehicles, *Airframes, *Cost estimates, Fabrication, Production engineering, Labor, Least squares method, Theses (U)
IDENTIFIERS: *Cost estimating relationships, Sensitivity analysis (U)

Cost estimating relationships (CER's) were developed for remotely piloted vehicle (RPV) airframes. A limited data base consisting of drones and RPV's was augmented with airbreathing, preprogrammed missiles. Logarithmic and linear equations were developed where possible using ordinary least squares regression for six categories of cost: engineering, manufacturing labor, tooling, material, development support, and flight test. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A003 279 17/2 14/1

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume II. System Effectiveness. (U)

DESCRIPTIVE NOTE: Final rept..
NOV 74 113P Loughney,Thomas M. :
REPT. NO. TTO-ORT-032-74-Vol-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Aug 74. AD-787 533.
DESCRIPTORS: *Tactical communications, *Cost effectiveness, Systems engineering, Models (U)

The volume contains the following information: A conceptual model of system effectiveness for Joint Tactical Communications Systems and Equipment; An approach to system effectiveness modeling; A system effectiveness methodology: Techniques for measurement and analysis: Measures of effectiveness. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A003 230 19/6 15/5

WATERVLIET ARSENAL N Y

Logistical Simulation Model for the Light Weight Company Mortar: A Technique for Computing Support Cost and Operational Availability. (U)

DESCRIPTIVE NOTE: Technical rept.,
DEC 74 23P Fiscella,Russell ;Adams III, John R. ;
REPT. NO. WVT-TR-74053
PROJ: DA-1-J-664602-D-029, PRON-A1-4-54700-02-M1-M7

UNCLASSIFIED REPORT

DESCRIPTORS: *Mortars, *Logistics, *Operational readiness, Maintainability, Spare parts, Logistics support, Costs, Computerized simulation, Value engineering (U)
IDENTIFIERS: VERT computer program (U)

This study was performed to determine the support cost of the LWCM for one year and the operational availability of the LWCM based on reliability, maintainability, and logistical inputs. A reliability distribution for each mortar component and the maintenance policy were input to a VERT computer program. Ammunition consumption was set at 10,000 rds a year. Repair parts were distributed at appropriate levels. The probability that parts would be on hand at each level and logistical downtime for each level was played. The most probable case showed a mean cost of $2,714 to support the mortar and a mean operational availability of .93. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A002 681 15/5

MINNESOTA UNIV MINNEAPOLIS GRADUATE SCHOOL

Managerial Inventory Formulations with Stockout Objectives and Fiscal Constraints. (U)

74 15P Schroeder,Roger G. ;

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v21 n3 p375-388 Sep 74.
SUPPLEMENTARY NOTE:
DESCRIPTORS: *Inventory analysis, *Cost analysis, Mathematical models, Inventory control, Management planning and control, Lead time, Stockpiling, Abundance, trade off analyses, Reprints (U)

Most inventory formulations seek to minimize the sum of ordering costs, holding costs, and stock costs; however, management often directs inventory policy by specifying a maximum investment level and/or a purchasing budget constraint. Within these limitations, they expect lower level managers to optimize some level of customer satisfaction, such as minimum stockouts or minimum shortages. The author has developed several cases of these 'managerial' inventory formulations and has presented some computational results. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A002 678 14/1 15/5

MICHIGAN UNIV ANN ARBOR

A General Treatment of Upper Unbounded and Bounded Hitchcock Problems. (U)

74 21P Dwyer,P. S. :

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v21 n3 p445-464 Sep 74.
SUPPLEMENTARY NOTE:
DESCRIPTORS: *Costs, *Logistics planning, *Transportation, Matrices(Mathematics), Statistical distributions, Mathematical models, Range(Distance), Set theory, Transformations(Mathematics), Shipping, Cargo, Reprints (U)
IDENTIFIERS: Hitchcock problem (U)

This paper is designed to treat (1) the problem of the determination of the absolute minimum cost, with the associated assignments, when there is no limit, N, on the number of parcels available for shipment in a modified Hitchcock problem. This is accomplished with the use of a transformed cost matrix, C*, to which the so-called transportation paradox does not apply. The general Hitchcock solution using C* gives the cost T*, which is the absolute minimum cost of the original problem, as well as sets of assignments which are readily transformed to give the general assignments of the original problem. The sum of these latter assignments gives the value of N sub u, the unbounded N for minimum cost. In addition, this paper is designed to show (2) how the method of reduced matrices may be used. (3) how a particular Hitchcock solution can be used to determine a general solution so that one solution using C* can provide the general answer. (4) how the results may be modified to apply to problems with fixed N, and hence (5) to determine the function of the decreasing T as N approaches N sub u and finally (6) to provide a treatment when the supplies at origin i and/or the demands at destination j, are bounded. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A002 322 9/2

SOFTECH INC WALTHAM MASS

Criteria for Evaluating the Performance of Compilers. (U)

DESCRIPTIVE NOTE: Final rept. Jun 73-Jun 74.
OCT 74 353P Bloom,Burton H. :Clark,Mac H. :Feldman,Clare G. :Coe,Robert K. :
CONTRACT: F30602-73-C-0321
MONITOR: RADC TR-74-259

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Compilers, Performance, Measurement, Computer architecture, Algorithms, Computer programming (U)
IDENTIFIERS: *Performance evaluation, Compumetrics, Parsing, Benefit cost analysis (U)

The main purpose of this study was to develop criteria by which it will be possible to qualitatively measure and evaluate the performance of compilers, possibly operating on different computers, and possibly having different features. To satisfy this purpose, three technical questions were studied: (1) How can two compilers with the same features and operating in the same environment be compared. (2) If two compilers with the same features operate in different environments, how can their measured differences in performance be attributed to the environmental differences vs. the compiler differences. (3) How should a compiler buyer deal with the problem of evaluating compilers with different special features. These three questions were studied from a point of view that the answers should help provide a basis for conducting dollar cost/benefit analysis of compilers. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A002 204 21/4

RAND CORP SANTA MONICA CALIF

Fuel from Organic Matter. (U)

OCT 73 26P Dugas,Doris J. ;
REPT. NO. P-5100

UNCLASSIFIED REPORT

DESCRIPTORS: *Energy conversion, *Fuels, Organic materials, Photosynthesis, Vegetation, Farm crops, Forests, Trees, Algae, Corn, Sorghum, Wastes(Industrial), Solid wastes, Urban areas, Anaerobic processes, Yeasts, Fermentation, Pyrolysis, Quantities (U)
IDENTIFIERS: Agricultural wastes, Waste disposal, *Solid waste disposal, Refuse, Cost estimates, Geographic locations (U)

It has been suggested frequently that the solar energy stored in green plants and organic wastes could be tapped to provide an alternative to the dwindling resources of fossil fuels. The advantage would be a fuel source that is renewable and available in our own time. This paper investigates the amounts of energy that might be made available from organic sources, the approximate cost of producing it and converting it to a convenient fuel, and some of the implications of a large-scale agro-energy industry. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A002 013 4/2 15/5 14/1

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

On Determining Cost Effectiveness of an Army Automatic Meteorological System. (U)

DESCRIPTIVE NOTE: Research and development technical rept.,
NOV 74 13P Miller,Walter ;Engelbos, Bernard ;
REPT. NO. ECOM-5548
PROJ: DA-1-T-162111-AH-71

UNCLASSIFIED REPORT

DESCRIPTORS: *Army operations, *Weather forecasting, Automatic, Mathematical models, Stochastic processes, Cost effectiveness (U)
IDENTIFIERS: AMS(Automatic Meteorological System), Automatic meteorological system (U)

Possible criteria for a cost effectiveness model for the Army Automatic Meteorological System are discussed. A determination of the nature of the problems expected to be encountered in satisfying these criteria appears similar to that of the construction of a stochastic model, where a careful balance between fidelity and tractability is essential. Barrier problems stemming from inadequacies in the interrelationship of weather and computer-played combat simulation models are also considered. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A001 747 15/5

COST ANALYSIS IMPROVEMENT GROUP WASHINGTON D C

Operating and Support Cost Development Guide for Aircraft Systems. (U)

MAY 74 59P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Weapon systems, *Life cycles, *Cost analysis, Department of Defense, Logistics, Investments, Military budgets, Guides (U)
IDENTIFIERS: *Cost estimates (U)

This guide provides a DSARC/CAIG framework for review of new weapon system life cycle operating and support (O and S) cost estimates and describes methodologies and techniques that the Military Departments and the CAIG can use to develop and record these estimates. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A001 713 15/5 17/2

NAVAL ELECTRONICS LAB CENTER SAN DIEGO CALIF

Telecommunications Equipment Low-Cost Acquisition Method (TELCAM). (U)

DESCRIPTIVE NOTE: Technical document.
JUL 74 120P Leffler,R. :
REPT. NO. NELC/TD-335
PROJ: NELC-Z269

UNCLASSIFIED REPORT

DESCRIPTORS: *Military procurement, *Communication equipment, Literature surveys, Environments, Costs, Life cycles, Low costs (U)

The report presents the information on which TELCAM is based: the results of a literature survey and interviews with military and industrial personnel; an environmental study including test data on over 160 ships; and a life-cycle cost methodology. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMC7

AD-A001 532 15/5

ARMY ARMAMENT COMMAND ROCK ISLAND ILL SYSTEMS ANALYSIS OFFICE

Economic Comparison of Wood-Preservative Treated and Untreated 105mm Ammunition Boxes (U)

DESCRIPTIVE NOTE: Technical note.
OCT 74 10P Eckman,Donald R. :
REPT. NO. SAO-Note-14

UNCLASSIFIED REPORT

DESCRIPTORS: *Ammunition cases, *Wood, *Treatment, *Cost analysis, Preservatives, Deterioration, Tropical regions, Life expectancy (U)

This study examined the economic consequences of treating wooden ammunition boxes with a preservative to prevent rapid deterioration in tropical climates. The study was basically an expected-value analysis presented in terms of cost-indifferent storage duration with life expectancy of the treated and untreated boxes as parameters. The results indicated that it would not be reasonable to store ammunition in untreated boxes. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMC7

AD-A001 065 9/3 15/5

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

Electronics-X: A Study of Military Electronics with Particular Reference to Cost and Reliability. Volume 2: Complete Report. (U)

DESCRIPTIVE NOTE: Final rept. Feb-Oct 73.
JAN 74 432P Gates,Howard P. , Jr.:
Gourary,Barry S. ;Dertouzos,Seymour J. ;
Rowan,Thomas C. ;Wexler,C. David ;
REPT. NO. R-195
CONTRACT: DAHC15-73-C-0200

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Jan 74, AD-783 007.
DESCRIPTORS: *Electronics, *Military applications, Costs, Reduction, Cost analysis, Reliability, Electronics, Maintenance (U)

The report identifies the current DOD and industrial policies, procedures, and practices in development, production, and operational support that most significantly influence the cost and reliability of military electronics, and it recommends changes to reduce and control cost and to improve reliability. The report concentrates on five major, high-impact areas: (1) data collection and feedback, (2) requirements, (3) competition and management options, (4) reliability enhancement, and (5) maintenance training. Numerous other areas are discussed, and detailed recommendations are made in each (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A001 036 15/5 5/1

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 94%-96% R and D Curves and 67%-99% Production Curves. Volume 10. (U)

DESCRIPTIVE NOTE: F nal rept.,
MAY 74 601P Johnson,George V. ;
REP . NO. TROSCOM-TR-74-11-Vol-10

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 9, AD/A-001 035 and Volume 11, AD/A-000 567.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, Tables(Data) (U)
IDENTIFIERS: *Quaternary S curves, *Cost quantity relationships, Cost estimates (U)

The Quaternary S-Curve was designed for cost-quantity adjustments necessary under these conditions: (1) when a cost estimate for a change in the production phase is needed and the production cost had there been no change is needed and (2) a relationship is needed to estimate R and D phototype costs, R and D production costs, full scale production preproduction model costs, and full scale production first unit costs. The estimates in (1) are particularly useful in negotiating changes to contracts. The relationships in (2) are useful in estimating Design To Unit Production Costs from cost-quantity data available in the R and D phase. This report contains: Table of 94% R and D curves; Table of 95% R and D curves; Table of 96% R and D curves. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A001 035 15/5 5/1

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 91%-93% R and D Curves and 67%-99% Production Curves. Volume 9. (U)

MAY 74 599P Johnson,George V. :
REPT. NO. TROSCOM-TR-74-11-Vol-9

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 8, AD/A-000 564 and Volume 10, AD/A-001 036.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, Tables(Data) (U)
IDENTIFIERS: *Quaternary S curves, *Cost quantity relationships, Cost estimates (U)

The quaternary S-Curve was designed for cost-quantity adjustments necessary under these conditions: (1) when a cost estimate for a change in the production phase is needed and the production cost had there been no change is needed and (2) a relationship is needed to estimate R and D prototype costs, R and D production costs, full scale production preproduction model costs, and full scale production first unit costs. The estimates in (1) are particularly useful in negotiating changes to contracts. The relationships in (2) are useful in estimating Design To Unit Production Costs from cost-quantity data available in the R and D phase. This report contains: Table of 91% R and D curves; Table of 92% R and D curves; Table of 93% R and D curves. (U)

AD-A001 034 15/5 5/1

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 85%-87% R and D Curves and 67%-99% Production Curves. Volume 7. (U)

MAY 74 599P Johnson,George V. ;
REPT. NO. TROSCOM-TR-74-11-Vol-7

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 6, AD/A-000 562 and Volume 8, AD/A-000 564.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, Tables(Data) (U)
IDENTIFIERS: *Quaternary S curves, Cost estimates, *Cost quantity relationships (U)

The Quaternary S-Curve was designed for cost-quantity adjustments necessary under these conditons: (1) when a cost estimate for a change in the production phase is needed and the production cost had there been no change is needed and (2) a relationship is needed to estimate R and D prototype costs, R and D production costs, full scale production preproduction model costs, and full scale production first unit costs. The estimates in (1) are particularly useful in negotiating changes to contracts. The relationships in (2) are useful in estimating Design To Unit Production Costs from cost-quantity data available in the R and D phase. This report contains: Tables of 85% R and D curves; Table of 86% R and D curves; Tables of 87% R and D curves. (U)

AD-A001 033 5/9 15/5

GENERAL RESEARCH CORP MCLEAN VA OPERATIONS ANALYSIS DIV

An Econometric Analysis of Volunteer Enlistments of Service and Cost Effectiveness Comparison of Service Incentive Programs. (U)

DESCRIPTIVE NOTE: Final rept. 1 Sep 73-30 Jun 74.
OCT 74 315P Grissmer,D. W. ;Amey,D. M. ;Arms,R. L. ;Huck,D. F. ;Imperial,F. F. ;
REPT. NO. OAD-CR-66
CONTRACT: MDA903-74-C-0099

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Cost effectiveness, *Recruiting, Cost analysis, Employment, Recruiters, Salaries, Volunteers, Time series analysis, Skills, Mathematical models, Education (U)
IDENTIFIERS: All volunteer military services, Bonuses, Unemployment (U)

The primary purpose of this study was to determine the cost effectiveness of various enlistment programs in attracting additional volunteers to each Service. The analysis was also aimed at determining the effects of changes in youth unemployment rates, college entrance patterns and various Service manpower policies on volunteer enlistments in each Service as well as the inter-Service effects of one Service's programs on enlistments in other services. Three different methods of analysis have been used to determine program and policy effects. An econometric model of volunteer enlistments by state using explanatory variables including the number of recruiters, youth unemployment rate, military/civilian wage and college entrance rates was used with 1972 and 1973 enlistment data. A monthly econometric time series model was also used with volunteer data in the CY71-CY73 time period with explanatory variables including military/civilian wage, number of recruiters, bonus variables, print media advertisements, unemployment rates and inter-Service variables. Finally, survey data were analyzed to estimate effectiveness of the bonus. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A001 015 5/3

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF QUANTITATIVE BUSINESS ANALYSIS

Calculation of the Cost of Warranty Policies as a Function of Estimated Life Distributions. (U)

DESCRIPTIVE NOTE: Technical progress rept., OCT 74 27P Blischke,Wallace R. ; Scheuer,Ernest M. ;
REPT. NO. USC-WP-1-10-1974
CONTRACT: N00014-67-A-0269-0028
PROJ: NR-042-323

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Consumers, *Purchasing, Cost analysis, Life expectancy, Estimates, Distribution functions (U)
IDENTIFIERS: *Warranties, *Consumer goods, *Free replacement warranties, *Pro rata warranties, Parameter estimation (U)

Two types of warranties are analyzed. These are the free-replacement warranty, under which failed items are replaced free of charge until a specified total operating time has been achieved, and the pro-rata warranty, under which items which fail prior to a specified time are replaced at pro-rata cost to the buyer. Both the buyer's and seller's points of view are considered. The basis of the analysis is a comparison of warrantied and unwarrantied (otherwise identical) items with regard to long-run cost to the buyer and long-run profit to the seller. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A000 823 15/3 15/7 14/1

ARMY MATERIEL COMMAND REDSTONE ARSENAL ALA SAM-D PROJECT

A New Methodology for Analytical Cost Effectiveness Comparisons of Air Defense Systems. (U)

DESCRIPTIVE NOTE: Final rept., OCT 74 32P McLaughlin,Thomas R. ; Souvenir,Stanley J. ;Churchill,Robert E. ; Meaders,Thomas J. ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Antiaircraft defense systems, *Aircraft defense systems, *Cost effectiveness, Air defense, Cost analysis, Air to air missiles, Surface to air missiles, Kill probabilities, Interception probabilities, Aerial warfare, Cost analysis (U)
IDENTIFIERS: Scenarios (U)

This paper presents a new methodology for analytical cost effectiveness comparisons for air defense systems. The scenario used for evaluation is a typical deployment of an Army in the Field. No specific geographical location or terrain need be specified. Air Defense systems are described by their Single Shot Engagement Kill Probability, PK, their surveillance and intercept footprints, their reaction times and shot-to-shot time constraints, their multiple simultaneous engagement, MSE, capability, their procurement cost, and their ownership and maintenance costs. On an equal total cost of ownership for a ten year basis, this methodology gives quick comparisons of the relative effectiveness of competitive systems. The methodology compares favorably with more detailed effectiveness comparisons using simulated wars such as TACOS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A000 567 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 97%-99% R and D Curves and 67%-99% Production Curves. Volume 11. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 605P Johnson,George V. ;
REPT. NO. TROSCOM-TR-74-11-Vol-111

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 8, AD/A-000 564.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, *Learning curves, Statistical data, Management information systems, Research management, Production control, Costs, Army budgets, Logistics (U)
IDENTIFIERS: *Cost quantity relationships (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A000 564 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 88%-90% R and D Curves and 67%-99% Production Curves. Volume 8. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 600P Johnson,George V. ;
REPT. NO. TROSCOM-TR-74-11-Vol-8

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 6, AD/A-000 562 and Volume 11, AD/A-000 567.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, *Learning curves, Statistical data, Management information systems, Research management, Production control, Costs, Army budgets, Logistics (U)
IDENTIFIERS: *Cost quantity relationships (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A000 562 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 82%-84% R and D Curves and 67%-99% Production Curves. Volume 6. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 601P Johnson,George V. ;
REPT. NO. TROSCOM-TR-74-11-Vol-6

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 5, AD/A-000 561 and Volume 8, AD/A-000 564.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, *Learning curves, Statistical data, Management information systems, Research management, Production control, Costs, Army budgets, Logistics (U)
IDENTIFIERS: *Cost quantity relationships (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A000 561 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quarternary S-Curves Based on 79%-81% R and D Curves and 67%-99% Production Curves. Volume 5. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 200P Johnson,George V. :
REPT. NO. TROSCOM-TR-74-11-Vol-5

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 4, AD/A-000 560 and Volume 6, AD/A-000 562.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, *Learning curves, Statistical data, Management information systems, Research management, Production control, Costs, Army budgets, Logistics (U)
IDENTIFIERS: *Cost quantity relationships (U)

The Quaternary S-Curve was designed for cost-quantity adjustments necessary under these conditions: (1) when a cost estimate for a change in the production phase is needed and the production cost had there been no change is needed and (2) a relationship is needed to estimate R and D prototype costs, R and D production costs, full scale production preproduction model costs, and full scale production first unit costs. The estimates in (1) are particularly useful in negotiating changes to contracts. The relationships in (2) are useful in estimating Design To Unit Production Costs from cost-quantity data available in the R and D phase. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A000 560 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quarternary S-Curves Based on 76%-99% Production Curves. Volume 4. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 601P Johnson,George V. :
REPT. NO. TROSCOM-TR-74-11-Vol-4

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 3, AD/A-000 559 and Volume 5, AD/A-000 561.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, *Learning curves, Statistical data, Management information systems, Research management, Production control, Costs, Army budgets, Logistics (U)
IDENTIFIERS: *Cost quantity relationships (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD-A000 559 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quarternary S-Curves Based on 73%-75% R and D Curves and 67%-99% Production Curves. Volume 3. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 601P Johnson,George V. :
REPT. NO. TROSCOM-TR-74-11-Vol-3

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 2, AD/A-000 558 and Volume 4, AD/A-000 560.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, *Learning curves, Statistical data, Management information systems, Research management, Production control, Costs, Army budgets, Logistics (U)
IDENTIFIERS: *Cost quantity relationships (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A000 558 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 70%-72% R and D Curves and 67%-99% Production Curves. Volume 2. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 601P Johnson,George V. ;
REPT. NO. TROSCOM-TR-74-11-Vol-2

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 1, AD/A-000 557 and Volume 3, AD/A-000 559.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, *Learning curves, Statistical data, Management information systems, Research management, Production control, Costs, Army budgets, Logistics (U)
IDENTIFIERS: *Cost quantity relationships (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD-A000 557 5/1 14/1 15/5

ARMY TROOP SUPPORT COMMAND ST LOUIS MO

Tables of Quaternary S-Curves Based on 67%-69% R and D Curves and 67%-99% Production Curves. Volume 1. (U)

DESCRIPTIVE NOTE: Final rept..
MAY 74 601P Johnson,George V. ;
REPT. NO. TROSCOM-TR-74-11-Vol-1

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
SUPPLEMENTARY NOTE: See also Volume 2, AD/A-000 558.
DESCRIPTORS: *Army operations, *Production engineering, *Cost analysis, *Learning curves, Statistical data, Management information systems, Research management, Production control, Costs, Army budgets, Logistics (U)
IDENTIFIERS: *Cost quantity relationships (U)

As the result of the introduction of changes to an operating production system, there are three separate and distinct costs that must be considered: (1) the cost of the effect of the changes, (2) the cost of the changes, and (3) the basic production cost had the changes not occurred. Cochran developed an S-Curve/log-linear curve relationship for determining item (1) above. These tables can be used to estimate items (1), (2) and (3) above. The tables may also be used to estimate the R and D prototype costs, R and D production costs, the full scale production preproduction model costs, the full scale production first unit costs, the state-of-the-art, and/or the R and D and production learning rates (curves). (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A000 483 17/7 14/1

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Three Life Cycle Cost Models for Inertial Systems. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 74 42P Adel,Robert E. ;Bonner, William J. ;Gibson,Keith J. :
REPT. NO. AGMC-74-011-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Inertial guidance, *Cost analyses, *Logistics planning, Avionics, Life cycles, Mathematical models, Maintenance, Acquisition, Trade off analyses, Air Force research (U)
IDENTIFIERS: *Life cycle costing, Cost models, Logistics management, Omega navigation systems (U)

The purpose of this report was to present three different Life Cycle Cost models for inertial systems to the membership of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems for the purpose of familiarization prior to the April 1974 meeting of that Group in Anaheim, California. The report describes three life cycle cost models that have been used in economic analysis of inertial navigation systems. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD-A000 399 1/3 14/1

GENERAL DYNAMICS SAN DIEGO CALIF CONVAIR AEROSPACE DIV

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume III. Cost Data Base. (U)

DESCRIPTIVE NOTE: Interim rept. Jul 72-Nov 73.
JUN 74 *56P Kenyon,R. E. :
REPT. NO. CASD-AFS-73-001
CONTRACT: F33615-72-C-2083
PROJ: AF-1368
TASK: 136802
MONITOR: AFFDL TR-73-129-Vol-3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Dec 73. AD-783 639.
DESCRIPTORS: *Aircraft, *Airframes, *Costs, Estimates, Cost analysis, Aerodynamic control surfaces, Composite structures, Manufacturing, Computer programming, Data bases (U)
IDENTIFIERS: Design to cost, Cost estimating relationships (U)

This volume presents the cost data used as the basis for developing the trade cost estimating technique for aerodynamic surfaces. Other data that has become available in the course of the study is also presented. Raw data and organized data are presented. An ultimate objective of the study with respect to the cost data base is to present back-up data for each individual CER, including both trade study and system costing relationships. The cost trend data that is included was produced under an amendment to the contract. Its intent was to provide a data base for cost estimate evaluation. (Author) (U)

AD- 923 129 14/1 15/5 5/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Case Study of the Usefulness of the Cost/ Schedule Control System Criteria (C/ SCSC). (U)

DESCRIPTIVE NOTE: Master's thesis.
SEP 74 136P Zbylut,Robert S. :
REPT. NO. GSM/SM/74S-15

UNCLASSIFIED REPORT

DESCRIPTORS: (*Management planning and control, *Military procurement), (*Monitoring, Contracts), (*Cost effectiveness, Department of Defense), Management, Planning, Costs, Research management, Human relations, Scheduling, Efficiency, Management engineering, Budgets, Operations research, Theses (U)
IDENTIFIERS: C/SCSC(Cost/schedule control system criteria), *Cost/schedule control system criteria (U)

The Cost/Schedule Control System Criteria (C/SCSC) is the present standard method used by the department of Defense to monitor cost and progress of major acquisition programs. This research is a case study of one contractor and one such program. The objective is to determine the usefulness of C/SCSC to the management of the program. C/SCSC consists of a set of criteria which the internal management system of the contractor must meet. This research examined the general requirements for a system to comply with C/ SCSC and examined the system of a single contractor. The three primary advantages from using C/SCSC are improved communications between managers in all organizations, improved visibility into the cost, progress, and management activities of the contractor, and forward planning of all required work. General limitations on usefulness of C/SCSC included problems concerning the meaning and timeliness of reports submitted, difficulty in analyzing the information, difficulty in determing schedule performance and difficulty in integrating the data with technical performance. (U)

AD- 920 774 5/9 5/3

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Military Occupational Specialty Training Cost Handbook (MOSS), Volume II Commissioned and Warrant Officers MOS's. (U)

MAY 74 374P Carnahan,William P. :

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-920 773L.
DESCRIPTORS: (*Army training, *Cost analysis), (*Officer personnel, *Costs), Statistical data, Army personnel, Job analysis, Specialists, Army budgets, Missions, Skills, Classification, Tables(Data), Handbooks, Army operations, Careers, Army procurement, Field army, Military reserves, Schools, Courses,Education) (U)
IDENTIFIERS: *Warrant officers, Noncommissioned officers, Bonuses, MOS(Military Occupational Specialty), Military Occupational Specialty (U)

Volume I of this handbook presented rationale, methodology, and utilization statements as they referred to the enlisted MOS's. This section presents the same type of information for the Officer Corps and for Warrant Officers. The format remains the same and the uses remain unchanged. Certain unique features to these training costs are provided, including both similarities and differences in these MOS training costs. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 920 773 5/9 5/3

OFFICE OF THE COMPTROLLER OF THE ARMY WASHINGTON D C DIRECTORATE OF COST ANALYSIS

Military Occupational Specialty Training Cost Handbook (MOSB). Volume I. Enlisted MOS's. (U)

MAY 74 577P Carnahan,William P. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-920 774L.
DESCRIPTORS: (*Army training, *Cost analysis), (*Enlisted personnel, *Costs), Statistical data, Handbooks, Army personnel, Job analysis, Specialists, Army budgets, Missions, Skills, Classification, Tables(Data), Army operations, Careers, Army procurement, Field army, Military reserves, Schools, Courses(Education) (U)
IDENTIFIERS: MOS(Military Occupational Specialty), Military Occupational Specialty, Bonuses (U)

Cumulative training investment cost per man is shown for each Army Military Occupational Specialty (MOS). The investment data also include cumulative weeks of formal training. The costs shown identify the appropriation subtotals for Military Personnel, Army (MPA), Operation and Maintenance, Army (OMA) and Procurement. Costs are subidentified as variable, weighted average variable, fixed, and total. Cumulative subtotals are shown at each skill level in the assumed career progression that is reflected for each MOS. The costs reflect FY 1974 price escalation levels, and fixed and total costs per man are based on FY 1974 output. (U)

AD- 920 773 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 918 945 15/5 5/1 5/3

RCA GOVERNMENT AND COMMERCIAL SYSTEMS CAMDEN N J

Procedures and Methodology for Logistics Supportability Test and Evaluation. (U)

DESCRIPTIVE NOTE: Final rept. 11 Apr-31 Dec 73.
MAR 74 332P
REPT. NO. CIF/R-2
CONTRACT: F33600-73-C-0464

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Appendices, AD-918 946L.
DESCRIPTORS: (*Logistics support, Air Force operations), (*Costs, Logistics support), Management planning and control, Military requirements, Maintainability, Reliability, Standardization, Test methods, Air Force procurement, Scheduling, Life cycles, Data acquisition, Trade off analyses, Command and control systems, Flow charting, Specifications, Weapons, Methodology (U)

This document prescribed the procedures and methodology for logistics support test and evaluation. The purpose is to present procedures necessary to implement the AFLC independent Test and Evaluation requirements of AFR 80-14. The procedures and methodology presented cover planning, specifying, testing, evaluating, and reporting of logistics supportability and also includes measures/evaluation criteria for logistics support, logistics support cost, and operational reliability and maintainability. (U)

AD- 918 945 UNCLASSIFIED ZOMO7

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 916 001 14/4 5/1

BOEING CO SEATTLE WASH

Life Cycle Cost/System Effectiveness Evaluation and Criteria. (U)

JAN 74 71P Walker,G. A. :
REPT. NO. D180-17648-1

UNCLASSIFIED REPORT

DESCRIPTORS: (*Life cycles, Costs), (*Cost analysis, State of the art), (*Cost effectiveness, Management planning and control), Reliability, Maintenance, Maintainability, Logistics support, Acquisition, Procurement, Operation, Computer programs, Data bases, Quality assurance, Planning, Manpower, Training, Research management, Aircraft, Guided missiles, Bibliographies (U)
IDENTIFIERS: Design, Systems worth, *Life cycle costs (U)

This document contains results of an independent research and development task on life cycle cost performed by Boeing Aerospace Company. This seven month study is Phase I of a planned continued effort and includes discussion on life cycle cost current state-of-the-art, a planned approach and recommendations on where emphasis should be placed to effectively perform cost analysis studies on new systems. Included is a bibliography of 160 documents relevant to life cycle cost, and an evaluation of 14 computer programs which provided the data base from which cost consideration elements and new criteria were developed. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 913 440 5/3 1/3

NOAH (J WATSON) ASSOCIATES INC ALEXANDRIA VA

Estimating Aircraft Acquisition Costs by Parametric Methods. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 73 94P Noah,J. W. :Daniels,J. M. :Day,C. F. :Eske,H. L. :
REPT. NO. FR-103-USN
CONTRACT: N00014-73-C-0320

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL PROCUREMENT, NAVAL AIRCRAFT), (*COSTS, NAVAL AIRCRAFT), REGRESSION ANALYSIS, CONTRACTS, MATERIALS, AIRFRAMES, AIRCRAFT ENGINES, MACHINE TOOLS, LABOR, GAS TURBINES, ELECTRONIC EQUIPMENT, AERODYNAMIC CHARACTERISTICS (U)
IDENTIFIERS: AVIONICS, COST ESTIMATES, COST ANALYSIS (U)

This report presents summary data on airframe and engine characteristics and acquisition costs, and equations resulting from the application of multiple regression analysis. Cost and characteristic data are presented in summary form for 35 aircraft airframes and for 20 turbine engines. The cost data is divided between recurring and non-recurring to aid analysis. Equations that relate cost to physical, performance and program characteristics are given with appropriate indicators of their 'goodness of fit'. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 787 533 17/2 14/1

JOINT TACTICAL COMMUNICATIONS OFFICE FORT MONMOUTH N J

Cost Effectiveness Program Plan for Joint Tactical Communications, Volume III. Life Cycle Costing. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 74 135P Bellanca,Thomas J. :
REPT. NO. TTO-ORT-032-74-Vol-3

UNCLASSIFIED REPORT

DESCRIPTORS: *Tactical communications, *Cost effectiveness, Costs, Life cycles, Cost analysis, Trade off analyses, Economics (U)

The purpose of Volume III is to provide the necessary guidelines and methodology for the preparation of Life Cycle Costs that are used in cost effectiveness analysis of tactical communication programs and in the optimization of communication system/equipment design. The Life Cycle Costing Volume contains the following information: The Basic structure of the LCC model; definitions of all the cost elements involved in the acquisition and ownership of communication equipment; general and specific TRI-TAC recommendations concerning certain ground rules and assumptions to be used in LCC analysis of TRI-TAC related programs; equations with appropriate cost factors to calculate operating and support costs; formats for the presentation of the cost data. In addition, general guidelines and information are presented on the treatment of learning curves, discounting and inflation in LCC analysis. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 787 425 17/1 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Parametric Cost Estimating with Applications to Sonar Technology. (U)

DESCRIPTIVE NOTE: Technical rept.,
SEP 73 92P Miller,Bruce M. ;Sovereign, Michael G. ;
REPT. NO. NPS-55ZO73091A

UNCLASSIFIED REPORT

DESCRIPTORS: *Sonar equipment, *Military procurement, *Cost analysis, Mathematical prediction, Decision making, Statistical analysis, Learning curves (U)
IDENTIFIERS: *Cost overruns, *Cost estimates (U)

The problem of cost overruns has been prevalent in the acquisition of weapon systems. Parametric cost analysis was instituted by the Department of Defense as a means of obtaining accurate initial cost estimates. The parametric approach uses cost estimating relationships (CER) in the development of cost predictions. An algorithm is presented for the development of parametric cost estimates obtained from CER's. Fictitious sonar data is used to provide an example of the application of the algorithm. Input and output CER's are developed and used in the construction of a parametric cost estimate for a proposed submarine sonar system. The problems of data collection, normalization, and aggregation are discussed. Numerous linear regression techniques are applied to the data to obtain the final cost models. Uncertainty in the final cost estimate due to the learning curve effect is discussed along with the uncertainty contained in the cost prediction interval. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 787 395 15/5

RAND CORP SANTA MONICA CALIF

Bias in Initial Cost Estimates: How Low Estimates Can Increase the Cost of Acquiring Weapon Systems. (U)

JUL 74 29P Large,Joseph P. :
REPT. NO. R-1467-PA/E

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Weapon systems, *Military procurement, *Cost analysis, Contracts, Decision making, Test methods (U)
IDENTIFIERS: *Cost estimates, Cost overruns (U)

A small sample of weapon systems was investigated to determine whether a definite cause-and-effect relationship could be established between low initial cost estimates and subsequent cost increases. This report describes the result of that investigation and offers a few observations on how DoD might adapt defense procurement procedures to deal with problems arising from low estimates. The observations are intended to be suggestive, not definitive. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 787 367 6/12 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Comparative Analysis of Capital Equipment Budgeting Systems in Health Care Institutions. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 74 126P Talcott,Bruce Edwin :

UNCLASSIFIED REPORT

DESCRIPTORS: *Medical equipment, *Hospitals, Budgets, Costs, Economics, Construction, Operation, Equipment, Theses (U)
IDENTIFIERS: *Health care costs, Hospital administration, Health facilities (U)

The thesis presents a study of capital equipment investment budgeting procedures in the health care industry. It discusses capital equipment investment philosophy in general, and addresses a few of the contemporary problems and corresponding solutions contained in current health-care literature. The thesis also describes the specific capital equipment budgeting systems of three segments of the health-care industry: Navy hospitals, Veterans Administration hospitals, and non-federal hospitals. Three case studies in capital equipment budgeting - Naval Regional Medical Center, Oakland; Veterans Administration Hospital, Martinez; and Fairmont General Hospital, Alameda County - are presented to illustrate each of the three segments addressed. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 787 327 13/2 5/3

NATIONAL BUREAU OF STANDARDS WASHINGTON D C INST FOR APPLIED TECHNOLOGY

Cost Sharing for Shoreline Protection. (U)

DESCRIPTIVE NOTE: Contract rept..
AUG 74 73P Marshall,Harold E. ;
REPT. NO. NBSIR-73-294
MONITOR: IWR CR-74-7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Shores, *Environmental protection, *Costs, Coastal regions, Economic models, Land use, Breakwaters, Structures, Engineering, Hurricanes, Beach erosion, Floods, Damage, Federal budgets, Offshore, Army research (U)
IDENTIFIERS: *Shore protection, *Coastal engineering, *Cost sharing (U)

The nation's shorelines are being eroded by high winds and waves. Nonfederal interests have traditionally received federal help in the form of cost sharing for protective structures. The study provides the Army Corps of Engineers with an evaluation of alternative cost-sharing rules for shoreline protection with respect to efficiency, equity and administrative feasibility. Existing cost-sharing rules are described for hurricane, beach erosion, and emergency protection. The present cost-sharing system appears to induce local interests to choose costly techniques of protection, e.g., engineering rather than management techniques, and overbuilt projects in terms of the efficient scale. (Modified author abstract) (U)

AD- 787 327 UNCLASSIFIED PAGE 352

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 787 220 17/7 14/1

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting Held at Cambridge, Mass., on 19 August 1974. (U)

DESCRIPTIVE NOTE: Final rept.
AUG 74 40P
REPT. NO. AGMC-74-028

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 13 Jun 74. AD-787 195.
DESCRIPTORS: *Inertial systems, *Life cycles, *Cost analysis, *Meetings, Inertial navigation, Costs, Acquisition, Maintenance, Management planning and control, Algorithms (U)
IDENTIFIERS: Design to cost (U)

These proceedings describe the 4th quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. This meeting was held 19 Aug 74, in Cambridge, MA. The conference proceedings include a foreward by the Task Group Chairman, Russell B. Stauffer, educational presentations by Task Group members, and the proceedings of the newly formed Executive Board including plans for the 1974-1975 year. (Author) (U)

AD- 787 220 UNCLASSIFIED Z0M07

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 787 216 5/1

AIR FORCE INST OF T' H WRIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

The Impact of Direct Cost Funding on Test Center Management. (U)

DESCRIPTIVE NOTE: Master's thesis,
SEP 74 106P Peterson,Walter G. , Jr;
REPT. NO. GSM/SM/74S-12

UNCLASSIFIED REPORT

DESCRIPTORS: *Costs, *Management planning and control, *Test facilities, Errors, Deficiencies, Problem solving, Labor, Requirements, Organizations, Theses (U)
IDENTIFIERS: *Direct costs (U)

Budgetary procedures cause reduction of test facility total obligation authority when a program is cancelled in the budget review. Users face loss of T and _ funds on programs that slip. Adoption of a termination cost based on fixed costs should help. This study showed the possibility of inaccurate cost estimates due to poorly defined test requirements, use of inaccurate wage rates, ignoring cost growth, and poor organizational structure. Solution of related problems is discussed. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 787 197 9/2 17/2 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Criteria for Evaluating the Cost Effectiveness of Optical Character Recognition Equipment in Base Telecommunications Centers. (U)

DESCRIPTIVE NOTE: Master's thesis,
AUG 74 96P Johnston,William B. ;Abbott, Freeland K. , Jr;
REPT. NO. SLSR-36-74B

UNCLASSIFIED REPORT

DESCRIPTORS: *Optical character recognition, *Telecommunication circuits, *Communications networks, *Cost effectiveness, Communications central, Air Force, Message processing, Theses (U)

The objective of this research was to develop and demonstrate a method for calculating the cost effectiveness of Optical Character Recognition Equipment (OCRE) in military communications centers. Six AFLC bases were studied and a break-even cost for OCRE was developed for four of the bases: Wright-Patterson, Tinker, Robins, and Hill. Elements of cost of the current system considered were personnel, teletype equipment, and paper. No survey was made of OCR devices on the market to see if a specific device would be cost effective; rather, prices at which OCR devices of various capabilities would become cost effective were developed. Single and multifont OCR capabilities in both 10 and 12-pitch were considered. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 787 195 17/7 14/1

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting Held at Kennebunkport, Maine, on 11-13 June 1974. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 74 128P Meitzler,Thomas ;
REPT. NO. AGMC-74-020

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 19 Aug 74, AD-787 220 and report dated 25 Apr 74, AD-785 390.
DESCRIPTORS: *Inertial systems, *Life cycles, *Cost analysis, *Meetings, Inertial navigation, Costs, Acquisition, Maintenance, Management planning and control, Algorithms (U)
IDENTIFIERS: Design to cost (U)

These proceedings describe the third quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. This meeting was held 11-13 June, 1974, in Kennebunkport, Maine. The conference proceedings include an introduction by the Task Group Chairman, Russell M. Genet, educational presentations by several Task Group members, and summaries of three working groups. These three groups derived first-cut algorithms for the improved life cycle cost model in the areas of: (1) Research, Development, Test and Evaluation; (2) Acquisition; (3) Operation and Maintenance. (Author) (U)

AD- 787 195 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 787 188 15/5 1/3

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Avionics Cost Reduction Through Improved Tests. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 8P Genet,Russell M. ;
REPT. NO. AGMC-74-024

UNCLASSIFIED REPORT

DESCRIPTORS: *Avionics, *Maintenance, Test methods, Costs, Reduction, Economics, Inertial systems, Gyroscopes, Repair (U)

Although cost has always been a consideration in the selection and use of tests for the repair of avionics, the present widespread use of very expensive avionics has necessitated refinements in testing with the goal of reducing repair costs. The relationship between testing and repair costs is rather complex, and only recently has it come under close scrutiny. It is the purpose of this paper to examine the recent analytic work relating avionics testing to repair costs. This paper covers the most important aspects of this body of research on the relationship between avionics testing and repair costs with the hope that the reader will be able to apply this research to reducing the cost of repairing his own avionics. A summary and list of references is provided at the end of the paper. (Author) (U)

AD- 787 188 UNCLASSIFIED Z0MO7

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD- 787 183 15/3 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Summary and Analysis of Selected Life Cycle Costing Techniques and Models. (U)

DESCRIPTIVE NOTE: Master's thesis,
AUG 74 182P Dover,Lawrence E. ;Oswald, Billie E. , Jr;
REPT. NO. SLSR-18-74B

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Life cycles, *Logistics planning, *Bibliographies, Costs, Taxonomy, Reliability, Maintainability, Cost effectiveness, Accounting, Models, Estimates, Simulation, Theses (U)
IDENTIFIERS: *Life cycle costing, *Cost models, *Logistics management (U)

Operational costs continue to recur throughout the life of a weapon system and normally represents the majority of life cycle costs. Presented are an 'Annotated Bibliography of Selected Life Cycle Costing Literature' and a 'Taxonomy of Selected Life Cycle Cost Models'. The Annotated Bibliography is sectionalized into six areas: Directives and Guides; General Philosophy and Methodology; Reliability and Maintainability; Cost-Effectiveness; Cost Models; and Case Studies and Technical Reports. The Taxonomy discusses six types of life cycle cost models including accounting, cost estimating relationship, simulation, failure-free warranty, reliability, and economic analysis models. One conclusion is that awareness of life cycle costing concepts results in better planning and decisionmaking. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD- 787 045 5/3 5/1

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

Engineering Economic Analysis of Alternatives Using Benefits as Criteria for Evaluation. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 74 93P Motichko,Michael C. :
REPT. NO. USAMC-ITC-02-08-73-110

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Economics, *Decision making, Substitutes, Costs, Benefits (U)
IDENTIFIERS: Benefit cost analysis, Delphi technique, *Economic analysis, *Alternatives (U)

This research develops an effective procedure for the engineering economic analysis of alternatives using their different or unequal benefits as the decision criteria. The procedure calls for the determination of three numerical values. The Relative Weights show the relative importance of the benefits. The Delphi Technique is used to obtain the assignments of the Relative Weights from a group of experts, and convert them to a general consensus of expert opinion. The Alternative Ratings are numerical values from 0.00 through 10.00, that reflect how well each alternative satisfies each benefit. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 786 757 10/1 10/2

BOOZ-ALLEN AND HAMILTON INC BETHESDA MD

Alternative Strategies for Optimizing Energy Supply, Distribution, and Consumption Systems on Naval Bases. Volume II. Advanced Energy Conservation Strategies. (U)

DESCRIPTIVE NOTE: Final rept. Nov 73-Jan 74,
JAN 74 231P Consroe,T. ;Nicholas,J. ;
Nichols,J. ;Wulfinghoff,D. ;Mateyka,J. ;
CONTRACT: N62399-73-C-0029
MONITOR: CEL CR-74.007

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-777 471.
DESCRIPTORS: *Energy management, *Naval shore facilities, Solar heating, Fuel cells, Transportation, Heat engines, Technology, Cost effectiveness, Energy conservation, Cost analysis, Benefits, Thermionic converters, Solar collecto (U)
IDENTIFIERS: Cost benefit analysis, Electric power generation, Wind power, Solar air conditioning, Photovoltaic cells (U)

The report describes five advanced strategies for optimizing energy supply, distribution, and consumption systems on naval bases: (1) Solar energy applications; (2) automated building control and monitoring systems; (3) electrochemical sources--fuel cells; (4) advanced transportation technology; and (5) total energy systems. For each advanced strategy, the report contains a technology assessment, a discussion of applicability to the Navy, a discussion of costs and benefits, and recommendations for Navy implementation. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 786 652 5/9 14/1

RAND CORP SANTA MONICA CALIF

Cost and Efficiency in Military Specialty Training. (U)

JAN 74 34P Gay,Robert M. ;Nelson,Gary R. ;
REPT. NO. P-5160

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented to the Annual Department of Defense Cost Research Symposium (8th), Warrenton, Va., 7 Nov 73.
DESCRIPTORS: *Military training, *Air force personnel, *Cost effectiveness, Manpower utilization, Specialists, Investments, Value, Aircraft maintenance, Attitudes(Psychology) (U)

The paper focuses on the issue--specialty training for first-term enlisted personnel--and deals briefly with the relationship between this topic and other aspects of the efficient management of military specialties. The conceptual framework, or methodology, for evaluating specialty training which has been developed at Rand considers the costs of both formal and on-the-job training as well as the returns to training for first-term enlisted personnel. This methodology was pilot-tested using members of one Air Force specialty, and results of that study are described. In the pilot study, average costs and returns to training were estimated, and, in addition, estimates were made of the relationship between individual attributes and the cost of training. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 786 581 5/9

RAND CORP SANTA MONICA CALIF

Considering the Cost of DOD Personnel: A Look at Some Issues Requiring Further Analysis, (U)

JAN 74 21P Beltramo,Michael N. :
REPT. NO. P-5166

UNCLASSIFIED REPORT

DESCRIPTORS: *Department of Defense, *Manpower, *Costs, Personnel management, Civilian personnel, Military personnel, Substitutes, Reviews (U)
IDENTIFIERS: Civilianization (U)

The paper considers the rising personnel Cost of DOD and discusses the cost issues related to the substitution of civilians for military personnel. While most recent research has sought to define and accurately measure the costs of both military and civilian personnel, the author states that this should be only the initial point of departure and that any decision to proceed with civilianization should consider both trends which are external to but affect the issue together with the impact that a decision for civilianization might have upon the current relative costs of civilian personnel. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 786 551 14/1 5/1 15/5 13/2

ARMY CONSTRUCTION ENGINEERING RESEARCH LAB CHAMPAIGN ILL

Computer-Based Specifications: Cost Analysis Study. (U)

DESCRIPTIVE NOTE: Final rept..
AUG 74 18P Poskus,Uldis R. :
REPT. NO. CERL-TR-P-25
PROJ: DA-4-A-0612121-A-891
TASK: 4-A-0612121-A-89106

UNCLASSIFIED REPORT

DESCRIPTORS: *Cost analysis, *Data processing, *Construction, *Specifications, Magnetic tape, Typewriters, Personnel, Reviews, Computer applications, Optimization, Time studies, Benefits, Savings (U)
IDENTIFIERS: Army Corps of Engineers (U)

The computer-based specifications cost analysis study measured the absolute and relative efficiency of three methods of specification preparation: conventional typewriter based, magnetic tape selectric typewriter (MTST) based, and computer based. The computer-based method employed a keyboard/printer terminal linked to a time-sharing computer, using a text-editing computer program. The test procedure involved a controlled, repetitive preparation of representative samples of six Corps of Engineers guide specifications. The results indicate: (1) the computer-based method costs are 55 percent of MTST method costs and 39 percent of conventional typewriter method costs; (2) MTST costs are 72 percent of typewriter costs. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 786 502 15/5 19/1

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

Analysis of Overhead Cost for a Defined Cost Center in the Lake City Army Ammunition Plant Using Regression Analysis. (U)

DESCRIPTIVE NOTE: Final rept.,
MAY 74 73P Hurta,Nicholas W. ;
REPT. NO. USAMC-ITC-02-08-73-107

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Military facilities, *Costs, Army, Regression analysis, Ammunition, Allocations, Computer applications (U)
IDENTIFIERS: *Indirect costs, Cost estimates (U)

Generally, the purpose of this research paper is twofold: (1) it develops a procedure by which overhead costs can be analyzed; (2) it applies regression analysis as the analytical means of determining the volume measurement that best correlates with overhead cost of a cost center using available production data. Specifically, this research paper investigates a defined cost center in the Lake City Army Ammunition Plant and: (1) determines that standard labor dollars is the best volume measurement for the cost center; (2) establishes two relationships between overhead cost and standard labor dollars that could be used in overhead cost estimation. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 786 501 14/2 7/4

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

Life Cycle Cost Study of Army Spectrometric Oil Program (ASOAP). (U)

DESCRIPTIVE NOTE: Final rept.,
APR 74 59P Martin,Henry L. ;
REPT. NO. USAMC-ITC-02-08-73-018

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Costs, *Atomic spectroscopy, *Oils, Models, Life cycles, Feasibility studies, Chemical analysis, Spectrometry (U)
IDENTIFIERS: *SOAP(Spectrometric Oil Analysis Program), *Spectrometric oil analysis program (U)

IAC ACCESSION NUMBER: NT-018478
IAC DOCUMENT TYPE: N*IAC -MICROFICHE--
The scope of this paper is to determine the present life cycle cost (LCC) of ASOAP (Army Spectrometric Oil Analysis Program) based on certain assumptions. A cost model capable of determining the life cycle cost of ASOAP for both the atomic absorption spectrometry and the atomic emission spectrometry is developed. Next, using this cost model, the feasibility of the oil analysis program is determined. Finally, interest is focused on the benefits that the program has brought about in the past, and future benefits will be projected. A brief history of the Army's intervention into oil analysis, LCC, and cost models is presented. A brief discussion on the two methods of analysis that the Army uses and some estimations of various costs that are associated with ASOAP are included. A general cost model and a cost model for ASOAP is developed with a discussion of the various components. (Modified author abstract) (U)

IAC SUBJECT TERMS: N--(U)SOAP, OILS, COSTS, MODELS, SPECTPOMETRY, RESEARCH, FEASIBILITY, LITERATURE SURVEYS, HISTORY, SPECTROPHOTOMETRY, ATOMIC ABSORPTION, PREDICTIONS, COST EFFECTIVENESS;

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 785 953 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Development of a Predictive Model for First Unit Costs Following Breaks i. Production. (U)

DESCRIPTIVE NOTE: Master's thesis.
AUG 74 115P Pichon,Allen A. , Jr.; Richardson,Charles L. ;
REPT. NO. SLSR-15-74B

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force procurement, *Logistics planning, *Costs, Spare parts, Production, Learning curves, Mathematical prediction, Standard deviation, Theses (U)
IDENTIFIERS: *Break in operations (U)

While the learning curve has received increased emphasis from private industry and the United States Air Force (USAF), an associated phenomenon, the break in production and its effect on follow-on first unit costs has received little formal attention. Since a major activity of USAF is the procurement of spares or parts after initial production of a weapon system is completed, the need for a model to predict first unit costs following a break in production is evident. This thesis developed such a model relative to a machine-shop environment. Through the use of a computer stepwise regression program, a model was determined to predict first unit direct costs after a break in production. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 785 950 5/3 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Study in the Application of the Cost Center Performance Summary to the Managerial Decision-Making Process. (U)

DESCRIPTIVE NOTE: Master's thesis.
AUG 74 151P Ferris,Donald F. ;Smith. Frederick Y. ;
REPT. NO. SLSR-9-74B

UNCLASSIFIED REPORT

DESCRIPTORS: *Finance, *Management, *Decision making, Control, Resources, Costs, Questionnaires, Theses (U)
IDENTIFIERS: *Cost center performance summary, *Financial management (U)

The Cost Center Performance Measurement System is a financial management system that was implemented to help managers make better use of Air Force resources by assisting them in making decisions. The heart of this financial management system is the Cost Center Performance Summary (CCPS). This study was conducted to determine the extent to which financial managers within the Strategic Air Command and the United States Air Force in Europe were utilizing the CCPS to influence their managerial decisions. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 785 894 15/5 14/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Studies in Support of the AMARC: Review of Cost Effectiveness Analysis. Volume 1. (U)

MAR 74 42P
REPT. NO. LMI-74-14-Vol-1
CONTRACT: SD-321
PROJ: SD-321-21

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-785 895.
DESCRIPTORS: *Army equipment, *Army procurement, *Cost effectiveness, Management planning and control, Logistics, Maintenance, Personnel management, Manpower utilization, Systems engineering (U)

As part of the Army Materiel Acquisition Review Committee (AMARC) effort, LMI was asked to review cost-effectiveness analyses (CEEA) that were done in early stages of program development for quality and trends in quality. That was done for five disparate Army systems developments. It was found that CEEA were not looked upon as continuing efforts during program development but rather as a one-shot exercise to support the concept development package. There were many different models employed at relatively low levels in the development organizations, with little consistency among forms of models or cost data used. Little improvement with time was found. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 785 876 9/2 5/1 15/5

ARMY COMPUTER SYSTEMS COMMAND FORT BELVOIR VA

Management Strategies for ADP Networking. (U)

DESCRIPTIVE NOTE: Final rept..
74 170P Moore,K. Roger :
REPT. NO. USACSC-AT-74-02
PROJ: DA-SX-865803-MY-10
TASK: SX-865803-MY-1003

UNCLASSIFIED REPORT

DESCRIPTORS: *Data processing terminals, *Logistics planning, *Army, Communications networks, Management information systems, Cost analysis, Economics, Time sharing (U)
IDENTIFIERS: Network analysis(Management), *Computer networks, Benefit cost analysis (U)

The purpose of this report is to identify the fundamental long range issues affecting the environment in which future Army ADP support must be provided and to discuss the emerging theories of ADP network management. This is one of several reports to be produced by the Multicommand Networks Project. Whereas other reports of this Project will make specific recommendations regarding Army installations, this report establishes a frame of reference broad enough to transcend all the alternatives to be considered. For the purposes of this report, the terms 'computer networking,' 'ADP networking,' and 'ADP consolidation' are considered to be synonymous. In the fullest sense of networking, each organizational element in the network can be a producer, or a consumer of ADP services, or both. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 785 849 12/1

KENTUCKY UNIV LEXINGTON DEPT OF STATISTICS

The Secretary Problem with Interview Cost. (U)

JUL 74 25P Bartoszynski,R. ; Govindarajulu,Z. ;
REPT. NO. TR-71, TR6-ONR
CONTRACT: N00014-73-A-0385-0001
PROJ: NR-042-295

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Decision theory, Probability, Costs, Permutations (U)
IDENTIFIERS: *Stopping rules(Mathematics), *Secretary problem, Ranking (U)

The paper deals with the so-called secretary problem, i.e. with the problem of optimal stopping of the random permutation (x sub 1),....,x sub n of numbers 1,...,n, when the admissible information at each stage is only the relative value of the element observed last with respect to the preceding ones. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 785 455 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Evaluation of the Replacement Criteria for Select Air Force Commercial General Purpose Motor Vehicles. (U)

DESCRIPTIVE NOTE: Master's thesis.
AUG 74 110P Reidy,John A. , Jr.; Schneider,Donald A. :
REPT. NO. SLSR-3-478

UNCLASSIFIED REPORT

DESCRIPTORS: *Military vehicles, *Logistics planning, *Replacement theory, Replacement, Standards, Regression analysis, Correlation techniques, Aging(Materials), Life cycles, Costs, Air Force equipment (U)
IDENTIFIERS: Life cycle costing, *Logistics management (U)

The thesis evaluates the effectiveness of the Air Force replacement criteria using the sedan, station wagon and pickup truck as sample vehicles. The thesis compares the Air Force vehicle replacement methods with programs used by various commercial activities. It also evaluates the effectiveness of the replacement criteria 'age' and 'accumulated mileage' through multiple regression analysis and statistical tests. Results indicate that accumulated mileage is a valid consideration for replacement, but that the age of a vehicle does not provide adequate justification for replacement of that vehicle. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 785 438 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Cost Growth Model for Weapon System Development Programs. (U)

DESCRIPTIVE NOTE: Master's thesis,
AUG 74 103P Glover,William L. ;Lenz, John O. ;
REPT. NO. SLSR-22-74B

UNCLASSIFIED REPORT

DESCRIPTORS: *Military procurement, *Weapon systems, *Costs, Logistics planning, Uncertainty, Risk, Statistical analysis, Mathematical models, Theses (U)
IDENTIFIERS: Growth models (U)

Much attention has been placed on cost growth in military weapon system acquisitions. The reasons for cost growth can be related to uncertainty relative to program costs, delivery dates and product reliability. A conceptual model has been developed to cope with the uncertainties in weapons acquisition programs. The model relates the concepts of entropy, information, uncertainty and costs, predicting final costs based on a measure of uncertainty, synonymous with risk in this study. The measure of uncertainty is entropy, or the lack of order in the information available to the program manager. The model expresses final costs as the ratio of initial cost estimates to program entropy. The authors develop and refine the model for application to weapon development programs. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 785 392 17/7 15/5

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

A Description of a Life Cycle Cost Model for Inertial Navigation Systems. (U)

DESCRIPTIVE NOTE: Final rept.,
JUN 74 50P Weitzler,Thomas D. ;Genet, Russell M. ;
REPT. NO. AGMC-74-014II

UNCLASSIFIED REPORT

DESCRIPTORS: *Inertial navigation, *Avionics, *Life cycles, Inventory analysis, Cost analysis, Logistics planning, Inventory control, Mathematical models, Computer programs, FORTRAN (U)
IDENTIFIERS: *Logistics management, FORTRAN 4 programming language (U)

The purpose of this report is to document a mathematical model that has been used to evaluate the potential life cycle costs of inertial navigation systems. The model has been previously published; however, because of sensitive data, it had a limited distribution. This report includes deficitions of all input and output parameters, explanations of algorithms for the model, a sample run using fictiticus data and a program listing which includes a sensitivity study. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 785 391 17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Proceedings of Quarterly Meeting of Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems held at Clearwater, Florida on January 22-24, 1974. (U)

DESCRIPTIVE NOTE: Final rept.,
JAN 74 245P Genet,Russell M. ;Hunt,Don E. ;
REPT. NO. AGMC-74-012II

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 25 Apr 74, AD-785 390.
DESCRIPTORS: *Inertial systems, Life cycles, Costs, Meetings, Inertial navigation, Maintenance (U)

The proceedings describe the first meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. The report contains copies of educational presentations on various subjects connected with Life Cycle Costing and with Maintenance Warranties. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 785 390 17/7

AEROSPACE GUIDANCE AND METROLOGY CENTER NEWARK AIR FORCE STATION OHIO

Proceedings of Quarterly Meeting of Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Held at Anaheim, California on April 23-25, 1974. (U)

DESCRIPTIVE NOTE: Final rept.,
APR 74 91P Weitzler,Thomas ;
REPT. NO. AGMC-74-010II

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 24 Jan 74, AD-785 391.
DESCRIPTORS: *Inertial systems, Life cycles, Costs, Meetings, Inertial navigation (U)

The proceedings describe the second quarterly meeting of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. The report includes an Introduction by Task Group Chairman, Russell Genet, and educational presentations on life cycle costing. Also included is a report on progress towards a 'standardized' government/contractor life cycle cost model for inertial systems. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 785 375 1/3 14/1

GENERAL DYNAMICS SAN DIEGO CALIF CONVAIR AEROSPACE DIV

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume IV. Estimating Techniques Handbook. (U)

DESCRIPTIVE NOTE: Interim technical rept. Jul 72-Sep 73,
APR 74 77P Kenyon,R. E. :
CONTRACT: F33615-72-C-2083
PROJ: AF-1368
TASK: 136802
MONITOR: AFFDL TR-73-129-Vol-4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. Dated Dec 73. AD-783 639.
DESCRIPTORS: *Aircraft, *Airframes, *Cost analysis, *Handbooks, Aerodynamic control surfaces, Fabrication, Costs, User needs, Computer programming (U)
IDENTIFIERS: *Cost estimating relationships (U)

This report presents the interim results of a study aimed at extending cost estimating techniques developed and demonstrated under a previous contract. The previous study provided a trade study and a system study costing method for empennage elements. During the initial phase of the current study, these capabilities have been extended to include all aerodynamic surfaces: horizontal stabilizer, vertical stabilizer, canards treated as a stabilizer, and wings, including secondary structure. This volume provides a handbook as a guide to the trade study cost estimating technique. The function of the computer program is described. The program output format and the input data requirement and its organization are discussed and reference is provided to the cost estimating logic involved. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 785 313 17/7 5/1

MITRE CORP MCLEAN VA

An Advanced Air Traffic Management Concept Based on Extensions of the Upgraded Third Generation ATC System. System B: System Cost Analysis. (U)

SEP 73 65P Sinha,A. N. :
REPT. NO. MTR-6419-Ser-8
CONTRACT: DOT-FA70WA-2448
MONITOR: FAA-EM 73-10A-Ser-8

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Series 7. AD-785 312.
DESCRIPTORS: *Air traffic control systems, *Cost analysis, *Management planning and control, Estimates, Surveillance, Communication and radio systems, Navigation, Systems engineering, Radar equipment, Voice communications, Research management, Management information systems (U)
IDENTIFIERS: Advanced air traffic management system, Third generation systems, Fourth generation systems, Long range planning (U)

The AATMS study was initiated to evaluate various concepts of fourth generation air traffic control in the 1995 era. The purpose was to aid in the long-range planning of research and development, and to identify areas that appear the most promising for early preparation for the fourth generation. The report discusses the system cost analysis of an extension of the upgraded third generation ATC system. Cost estimates are presented for the surveillance, communications, and navigation subsystems as well as for the control centers and controller staffing. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 785 141 5/9

COOPER AND CO STAMFORD CONN

The Development of a Methodology for Estimating the Cost of Air Force On-the-Job Training. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 74 69P Samers,Bernard N. ;Dunham, Alan D. ;Nordhauser,Fred ;
CONTRACT: F1609-72-C-0048
PROJ: AF-2077
TASK: 207703
MONITOR: AFHRL TR-74-34

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Air Force training, *Technicians, *Cost analysis, Schools, Assessment, Skills, Education, Performance(Human), Reviews, Methodology (U)
IDENTIFIERS: *On job training, Comparison (U)

The Air Force uses a standardized costing methodology for resident technical training schools, but no comparable methodology has been available for computing the cost of on-the-job training (OJT). This study evaluates three alternative survey methodologies and a number of cost models for estimating the cost of OJT for airmen training in the Administrative Specialty from the 1-level (helper) to the 3-level (semi-skilled). The final costing methodology selected for use in the next phase of this research effort should be adaptable to other Air Force specialties and skill levels. The quality of OJT and TTS graduates is compared according to several criteria and the costs per graduate are compared. Other factors are also discussed. (Modified author abstract) (U)

AD- 785 141 UNCLASSIFIED PAGE 365

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 784 883 14/2

ROYAL AIRCRAFT ESTABLISHMENT FARNBOROUGH (ENGLAND)

A Generalized Analysis of the Performance of a Variety of Drive Systems for High Reynolds Number, Transonic, Wind Tunnels. (U)

DESCRIPTIVE NOTE: Technical rept.,
FEB 74 100P Pugh,P. G. ;Evans,J. Y. G. ;
REPT. NO. RAE-TR-73134
MONITOR: DRIC BR-39686

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Transonic wind tunnels, *High energy, *Cost effectiveness, *Reviews, Model tests, Aircraft, Reynolds number, Energy storage, Utilization, Great Britain, Systems engineering, Thermodynamic cycles, Drives, Performance(Engineering), Viscous flow, Mathematical models, Experimental design (U)
IDENTIFIERS: *High Reynolds number tunnels (U)

Many types of wind tunnels have been proposed for transonic testing of aircraft models at high reynolds numbers. While some form of stored-energy system is needed in order to avoid exorbitant running costs, designs can vary considerably in the extent to which effective use is made of the mass of air stored in the circuit, in the energy input needed between runs, and in the quality of flow in the test section. Some of the most promising designs can be considered as variants of same thermodynamic cycle, and a generalised study has been made of their relative merits. (U)

AD- 784 883 UNCLASSIFIED ZOMO7

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 784 499 5/11

SMITHSONIAN INSTITUTION WASHINGTON D C

Cost Benefits of Navy Recreation: Summary of a Conference Held at the Smithsonian Institution on December 1973. (U)

DESCRIPTIVE NOTE: Technical rept..
AUG 74 45P Sinaiko,H. Wallace ;Graham, Rebecca W. ;
REPT. NO. TR-1
CONTRACT: N00014-67-A-0399-0006
PROJ: NR-170-032

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Meetings, *Recreation, *Naval personnel, *Management information systems, Benefits, Costs, Problem solving, Policies, Planning, Naval research (U)
IDENTIFIERS: Recommendations (U)

A one-day conference was organized to serve two ends: To bring together information about the benefits of recreation and methods for assessing such information in terms of cost and other criteria; and to define related issues which would be clarified by further research. Participants included Navy recreation administrators and planners and a multi-disciplinary group of specialists from the behavioral sciences. The report summarizes the proceedings of the conference, which identified problems contributing to the difficulty of managing Navy recreation, suggested some arguments to support the case for recreation programs, and made action recommendations. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 784 444 5/9

RAND CORP SANTA MONICA CALIF

Manpower Cost Reduction in Electronics Maintenance: Framework and Recommendations. (U)

DESCRIPTIVE NOTE: Interim rept..
JUL 74 76P Nelson,Gary R. ;Gay,Robert M. ;Roll,Charles Robert , Jr;
REPT. NO. R-1483-ARPA
CONTRACT: DAHC15-73-C-0181. ARPA Order-189-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Electronic technicians, *Maintenance personnel, *Personnel management, *Cost analysis, Manpower, Military equipment, Training, Weapon systems, Classification, Management planning and control, Time domain (U)
IDENTIFIERS: Cost reduction, Recommendations (U)

The costs of maintaining military electronics systems have increased sharply in recent years. Two major sources of this increase can be identified. First, electronics systems have become much more numerous and complex, and second, personnel costs have risen sharply--especially the cost of first-term enlisted personnel. The report looks at methods of reducing these costs. Recommendations are made in three weapon systems: maintenance manning, job performance aids, and the personnel and training system. The study distinguishes between short-term experiments or demonstrations that could be completed in six months to one year and longer-term projects. (U)

/D- 784 335 15/5 14/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

A Quantitative Examination of Cost-Quantity Relationships, Competition During Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume II. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 74 290P Zusman,Morris ;Asher,Norman ;Metzler,Elliot ;Bennett,Debbie ;Gustaves, Selmer ;
REPT. NO. S-429
CONTRACT: DAHC15-73-C-0200
MONITOR: IDA/HQ 73-15740

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1, AD-778 612.
DESCRIPTORS: *Military procurement, *Industrial procurement, *Cost analysis, Cargo vehicles, Military aircraft, Commercial aircraft, Electronic equipment (U)
IDENTIFIERS: *Cost comparison, Competition (U)

The volume presents the results of the study which was divided into the following three interrelated subtasks: (1) An analytical and empirical examination of cost-quantity relationships with the objective of laying the framework for other parts of the study and attempting to identify factors other than cumulative units that might be incorporated in the progress curve; (2) an examination of competitive procurements with the objective of examining quantitatively the effect of competition on selling price; and (3) a comparison of prices paid for similar military and commercial equipment with the objective of testing quantitatively the hypothesis that commercial procurement practices are superior military procurement practices and that, as a result, commercial equipment costs less than similar military equipment. The appendices contain supporting data and analyses. (Author) (U)

AD- 784 124 15/5 5/3

OFFICE OF THE COMPTROLLER (AMC) ALEXANDRIA VA

Cost Estimating Relationships (CER) Compendium. Army Weapon and Equipment Systems. (U)

DESCRIPTIVE NOTE: Technical publication.
AUG 74 46P Frost,Ralph :

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Army equipment, *Costs, Logistics planning, Documents, Operation, Army aircraft, Ammunition, Communication equipment, Guided missiles, Military vehicles. (U)
IDENTIFIERS: Cost estimates, *Logistics management (U)

A compendium of Cost Estimating Relationships (CER's) for use in estimating the cost of proposed army weapons and equipment. The CER's are presented by Commodity area, and for each CER the cost category (Research and Development, Investment, or Operating), subject, and title and date of the source document is stated. Portions of this document are not fully legible. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 783 936 5/9

RAND CORP SANTA MONICA CAL'F

Estimating the Cost of On-the-Job Training in Military Occupations: A Methodology and Pilot Study. (U)

DESCRIPTIVE NOTE: Interim rept.,
APR 74 88P Gay,Robert M. ;
REPT. NO. R-1351-ARPA
CONTRACT: DAHC15-73-C-0181, ARPA Order-189-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Job training, *Military personnel, Cost analysis, Air Force training, Maintenance personnel, Manpower, Costs, Efficiency (U)
IDENTIFIERS: All volunteer military services, Productivity (U)

The conversion to an all-volunteer military has greatly increased interest in the cost of training first-term enlisted personnel. This report (1) develops a method of estimating military on-the-job training costs and relationships between these costs and the personal attributes of trainees, and (2) evaluates the feasibility of this technique. The method of estimation is a straightforward application of modern human capital theory; investment in OJT is measured as the present value of the sum of positive differences between an individual's military pay and productivity over time. In a pilot study conducted at Norton Air Force Base with members of the largest Air Force specialty (Aircraft Maintenance Specialists), OJT costs were estimated to average $6600 even though all trainees had attended an Air Force technical school costing about $3200. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 783 932 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

A Review of General Accounting Office Decisions on Life Cycle Costing. (U)

JUN 74 87P
REPT. NO. LMI-74-4
CONTRACT: SD-321
PROJ: SD-321-11

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Department of Defense, *Government procurement, *Costs, Life cycles, Reviews, Abstracts (U)
IDENTIFIERS: *Logistics management, *Life cycle costing (U)

The report reviews GAO decisions and reports through 1973 which impact on the application of Life Cycle Costing procedures on Government procurements. In addition to a discussion and overview, 35 specific decisions and reports are abstracted and reviewed. Cross-references and indexes by subject area are also provided. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 783 790 13/2 13/10

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

An Examination of Alternative Methods for Employing Booms to Contain Oil Spills in Navy Harbors. (U)

DESCRIPTIVE NOTE: Master's thesis.
JUN 74 102P Larson,Jerold Joseph :

UNCLASSIFIED REPORT

DESCRIPTORS: *Oil spills, *Booms(Equipment), *Decision making, Efficiency, Cost effectiveness, Costs, Performance(Engineering), Water pollution, Theses (U)
IDENTIFIERS: *Oil pollution containment, Comparison, Evaluation, Utility, Oil retention booms, Benefit cost analysis (U)

A plan is formulated which enables a decision maker to determine the relative effectiveness of three methods for employing oil spill containment boom. The evaluation is based on a utility analysis of three defined methods for employing oil spill containment boom. A decision analysis technique is employed to determine the relative importance of parameters indicating the utility of each method for boom employment. The plan provides a means for balancing cost considerations against potential benefits. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 783 639 1/3 14/1

GENERAL DYNAMICS/CONVAIR SAN DIEGO CALIF

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume I. Cost Methods Research and Development. (U)

DESCRIPTIVE NOTE: Technical rept. Jul 72-Sep 73.
DEC 73 233P Kenyon,R. E. ;Youngs,J. M. ;
CONTRACT: F33615-72-C-2063
PROJ: AF-1368
TASK: 136802
MONITOR: AFFDL TR-73-129-Vol-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft, *Airframes, *Costs, Estimates, Cost analysis, Aerodynamic control surfaces, Composite materials, Manufacturing, Computer programming (U)
IDENTIFIERS: Design to cost, Cost estimating relationships (U)

This report presents the interim results of a study aimed at extending cost estimating techniques developed and demonstrated under a previous contract. The previous study resulted in two separate estimating methods: a trade study and a system costing method. These methods provided two essential estimating capabilities: the capability of assessing the relative difference in the cost of the basic structures attributable to variations in type of construction and material in an iterative fashion to support tradeoff studies during the preliminary design process, and the capability of accurately estimating total airframe costs in manhours and materials for selected design while retaining sensitivity to type of material and construction. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 783 629 5/9 12/2

RAND CORP SANTA MONICA CALIF

A Method for Least-Cost Scheduling of Personnel through Training Course Sequences. (U)

JUN 74 33P Roach,Chris D. ;
REPT. NO. R-1399-PR
CONTRACT: F44620-63-C-0011

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:
DESCRIPTORS: *Personnel, *Travel time, *Cost analysis, *Decision making, Education, Computer programming, Algorithms, Transportation, Integer programming (U)

The report presents an algorithm to find the five least-cost sequences for scheduling military personnel through a series of courses where the costs incurred are transportation costs. The algorithm adapts the implicit enumeration approach of integer programming to this pipeline flow problem and will require at least (n - 2.8)n factorial fewer computations than total enumeration, where n is the number of courses. It can also be used to determine the least-cost sequences when mixed travel modes are involved. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 783 532 5/9

NAVAL SHIP SYSTEMS COMMAND WASHINGTON D C PERSONNEL AND TRAINING ANALYSIS OFFICE

Revised Manning Requirements and Personnel Cost Savings for the Leased LDMX/NAVCOMPARS Systems. (U)

DESCRIPTIVE NOTE: Rept. for Dec 73-May 74.
JUN 74 88P Vecellio,Mark L. :
REPT. NO. 047C-74
PROJ: X32-95

UNCLASSIFIED REPORT

DESCRIPTORS: *Communication and radio systems, *Manpower, Training, Automation, Personnel development, Cost analysis, Naval shore facilities, Job analysis, Requirements (U)

The report updates the results of an earlier investigation of the manning and training requirements for operation of the Local Digital Message Exchange (LDMX) and Naval Communications Processing and Routing (NAVCOMPARS) systems. The information presented in this study is expected to be useful to Navy planners in developing changes to activity manpower authorizations, personnel acquisition and distribution plans, and in determining student training loads and requirements. An additional purpose of this personnel-oriented view of the automated communications systems is to examine and highlight areas wherein personnel savings can be made. (U)

AD- 783 487 15/5 9/5

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Use of Computerized Support Modeling in Logistic Support Analysis. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 74 23P Colon,Willia: .. :
Calfapietra,Vincent G. :
REPT. NO. ECOM-4228

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Logistics Research Conference held at George Washington Univ., Washington, D.C., 8-10 May 74.
DESCRIPTORS: *Logistics support, *Electronic equipment, *Computerized simulation, Cost effectiveness, Maintainability, Inventory analysis, Life cycles, FORTRAN (U)
IDENTIFIERS: FORTRAN 4 programming language, Design to cost (U)

During recent years there has been a growing concern within the Department of Defense (DoD) for the consequences of ignoring predicted logistics costs for any given system while it is still in design. In order to deal with the problems of ownership as well as acquisition of a system, one must be able to bridge the gap between the inherent characteristics of the design and environment in which the system will be operated and maintained. A valuable technique for identifying and evaluating the most cost effective options for management decision in this area is the performance of Logistic Support Analysis (LSA) utilizing computerized support modeling. A demonstration of how computerized support modeling (GEMM) can be applied in this manner, is presented by considering the design and development of an electronics system for Army use. Two examples are provided in order to illustrate typical LSA's during both the Advanced Development and Engineering Development phases. (Modified author abstract) (U)

AD- 783 416 19/5

BATTELLE COLUMBUS LABS OHIO

Production of Inconel 718 Mortar Tubes by Hydrostatic Extrusion. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 74 32P Douglas,J. Richard :Landis, Warren R. :Meyer,George E. :Byrer,Thomas G. :Fiorentino,Robert J. :
CONTRACT: DAAF07-72-R-0082
PROJ: PRON-M:-2-23069-02-M7-M7
MONITOR: AVT CR-74027

UNCLASSIFIED REPORT

DESCRIPTORS: *Gun barrels, Mortars, Extrusion, Hydrostatic pressure, Nickel alloys, Costs, Reduction, Economics (U)
IDENTIFIERS: Nickel alloy Inconel 718, Cost engineering (U)

IAC ACCESSION NUMBER: MCIC-090630
IAC DOCUMENT TYPE: MCIC -HARD COPY--
Using subscale tubes, extrusion parameters were developed and then applied to full size 60mm tubes. It was shown that tubes can be satisfactorily produced at a reduced cost. Estimates were developed to mass produce hydrostatically extruded tubes. The processing parameters, dimensional results and economic analysis are presented in detail. (Modified author abstract) (U)

IAC SUBJECT TERMS: M--(U)INCONEL 718, TUBES, HYDROSTATIC EXTRUSION, COSTS, ELEVATED TEMPERATURE, SERVICE LIFE, ULTIMATE TENSILE STRENGTH, TENSILE YIELD STRENGTH, DUCTILITY, FATIGUE PROPERTIES, TOUGHNESS PROPERTIES, GUN TUBES.;

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 783 325 5/1

RAND CORP SANTA MONICA CALIF

Cost, Benefit, and Risk -- Keys to Evaluation of Policy Alternatives. (U)

MAR 74 18P Massey,H. G. ;
REPT. NO. P-5197

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Presented at the Cost-Effectiveness Symposium of the Washington Operations Research Council (3rd), Held at the National Bureau of Standards, Gaitnersburg, Maryland on March 18-19, 1974.
DESCRIPTORS: *Systems analysis, *Cost analysis, Risk, Decision making, Uncertainty, Allocations (U)
IDENTIFIERS: Resource allocation (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 783 320 1/3 15/5

RAND CORP SANTA MONICA CALIF

Problems in Avionics Life-Cycle Analysis. (U)

DEC 73 21P Fiorello,Marco R. ;
REPT. NO. P-5136

UNCLASSIFIED REPORT

DESCRIPTORS: *Avionics, *Life cycles, Weapon systems, Cost analysis, Procurement, Inventory analysis, Logistics support, Uncertainty (U)
IDENTIFIERS: Cost of ownership, Design to cost (U)

There is a need to know a great deal more about Life-Cycle costs for weapon systems and their subsystems. Direct costs for development, procurement and operations have continued to spiral upward at an increasing rate. Of particular interest are the Life-Cycle costs of new generation avionics subsystems in contemporary weapon systems. These new avionics have high procurement costs, higher support costs and even appear to dominate the weapon system maintenance costs. This report is concerned with the difficulties that characterize contemporary Avionics Life-Cycle Analysis. The uncertainty associated with estimating avionics life-cycle costs is related to the life-cycle stages of weapon systems. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 783 268 1/3 15/7

GOODYEAR AEROSPACE CORP AKRON OHIO

Slow Descent Recovery System Technology Study and Data Program. (U)

DESCRIPTIVE NOTE: Final rept. Apr-Oct 73.
APR 74 290P Bloetscher,Frederick ;
REPT. NO. GER-16010
CONTRACT: F33657-73-C-0470
PROJ: AF-5970
TASK: 14
MONITOR: AFFDL TR-74-7

UNCLASSIFIED REPORT

DESCRIPTORS: *Parachute descents, *Cost effectiveness, *Air drop operations, Drogue parachutes, Rotors, Gliders, Balloons, Payload, Weight, Deployment, Optimization, Performance(Engineering), Recovery (U)
IDENTIFIERS: *SLODS(SLOw Descent Systems), *Slow descent systems, Powered gliders, Drag devices, Tethered balloons (U)

A six-month parametric study program was conducted of performance, weight and volume characteristics of typical configurations of both the slow descending and loiter type systems suitable for lightweight expendable payloads released from aircraft or rockets. Typical configurations investigated were drag devices, rotors, gliders, powered gliders, free and tethered balloons. Descent systems were studied for descent velocities of 2, 4 and 8 FPS while loiter systems were considered for times ranging to 600 minutes for a payload range of 0.1 to 50 pounds and altitudes up to 50,000 feet. Volume which is related to SLODS (Slow Descent Systems) weights was considered to be the most important parameter for the investigation. (Modified author abstract) (U)

AD- 783 268 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 783 007 9/3 15/5

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

Electronics-X: A Study of Military Electronics with Particular Reference to Cost and Reliability. Volume 1: Executive Conspectus. (U)

DESCRIPTIVE NOTE: Final rept. Feb-Oct 73.
JAN 74 86P Gates,Howard P. , Jr.:
Courary,Barry S. ;Deitchman,Seymour J. ;
Rowan,Thomas C. ;Weimer,C. David ;
REPT. NO. R-195
CONTRACT: DAHC15-73-C-0200

UNCLASSIFIED REPORT

DESCRIPTORS: *Electronics, Military applications, Costs, Reduction, Cost analysis, Reliabilit,(Electronics) (U)

The report identifies the current DOD and industrial policies, procedures, and practices in development, production, and operational support that most significantly influence the cost and reliability of military electronics, and it recommends changes to reduce and control cost and to improve reliability The report concentrates on five major, nigh-impact areas: (1) data collection and feedback, (2) requirements, (3) competition and management options, (4) reliability enhancement, and (5) maintenance training. Numerous other areas are discussed and detailed recommendations are made in each. (Author) (U)

AD- 783 007 UNCLASSIFIED Z0M07

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 782 569 6/5 5/3

BOEING COMPUTER SERVICES INC SEATTLE WASH THE CONSULTING DIV

Naval Medical Care Study: Costs and Economic Efficiency. (U)

DEC 73 113P Lamson,Robert D. ;Waggoner, John J. ;Minner,Dale E. ;
CONTRACT: N00014-73-C-0341
PROJ: NR-046-257

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-782 572.
DESCRIPTORS: *Medical services, Manpower, Navy, Utilization, Cost analysis, Economics, Models, Patients, Regression analysis, Budgets, Military medicine, Efficiency (U)
IDENTIFIERS: Health care delivery systems, CHAMPUS(Civilian Health and Medical Program of the Uniformed Services), Health maintenance organizations (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 782 477 9/2 5/1

CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGEMENT

Guidelines for the Acquisition of Software Packages. (U)

DESCRIPTIVE NOTE: Technical rept.,
JUL 74 21P L'ertz,Bennet P. :
REPT. NO. TR-5
CONTRACT: N00014-69-A-0200-4053
PROJ: NR-049-345

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programming, *Acquisition, Accounting, Finance, Time sharing, Decision making (U)
IDENTIFIERS: Benefit cost analysis (U)

Many decisions dealing with computer software systems involve the potential acquisition of packages for a specific or limited general purpose nature. Guidelines for acquisition are presented here which stress the implementation feasibility of such packages. This reflects the behavior that operational considerations not only impact the cost of a package but also are neglected in favor of traditional cost/benefit analysis. The use of the guidelines in the areas of operations management, computer systems management, and accounting are discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 782 182 1/3 15/5

OFFICE OF THE ASSISTANT FOR STUDY SUPPORT KIRTLAND AFB N MEX

Models and Methodology for Life Cycle Cost and Test and Evaluation Analysis. (U)

DESCRIPTIVE NOTE: Final rept.,
JUL 73 161P Anderson,Richard H. ;Dixon, Thomas E. ;Couch,Robert F. , Jr.;Newhart, William H. , Jr;
REPT. NO. OAS-TR-73-6

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Supersedes AD-913 307.
DESCRIPTORS: *Avionics, *Life cycles, *Costs, Logistics support, Reliability, Attack bombers, Survival(General), Kill probabilities, Computer programs (U)
IDENTIFIERS: MCSP computer program, DSPC computer program, A-7 aircraft, A-7D aircraft (U)

This report documents various models and methodology which were developed during the course of some analytical studies on life cycle cost and test and evaluation. These studies were conducted by the Office of the Assistant for Study Support (OAS) at the request of DCS/Development Plans, Headquarters AFSC. The objectives of the study were to: Investigate the present methods of subsystem reliability specification and identify limitations associated with these methods; investigate new and innovative techniques for subsystem reliability management and identify benefits to be derived in terms of higher performance/lower costs; and, develop models and methodology applicable to life cycle cost and test and evaluation analyses. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 781 947 1/3 14/1

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO SYSTEMS ANALYSIS OFFICE

Cost-Effectiveness Model I. Prototype Selection and Trade-Office Analyses. (U)

MAY 74 22P El-Sabban,M. Zaki :
REPT. NO. AMSAV-D-74-14
MONITOR: USAAVSCOM TR-74-23

UNCLASSIFIED REPORT

DESCRIPTORS: *Helicopters, *Cost effectiveness, Performance, Reliability, Survival(General), Military procurement, Mathematical models (U)

The report presents a methodology that would guide a Product/Project Manager in making an informed selection from among several single prototype aircraft, based upon cost and effectiveness considerations. Measures of effectiveness are defined and a cost-effectiveness index (effectiveness per dollar) is determined and recommended as a basis for selection. A numerical example is presented, demonstrating the application of this model. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD- 781 857 9/5 17/7

PHILCO-FORD CORP WILLOW GROVE PA COMMUNICATION SYSTEMS DIV

Federal Aviation Administration Printed Circuit Board Analysis-Cost Vs. Benefit Study. (U)

DESCRIPTIVE NOTE: Final rept..
DEC 73 105P Girsberg,Gerald L. :
CONTRACT: DOT-FA72WA-3000
MONITOR: FAA-RD,GIDEP 74-111,E086-0621

UNCLASSIFIED REPORT

DESCRIPTORS: *Printed circuits, Cost analysis, Air traffic control systems, Cost effectiveness, Standards, Trade off analyses, Costs, Life cycles (U)
IDENTIFIERS: NTISDOT, *Printed circuit boards (U)

In arriving at a printed circuit board standard, the factors to be included in the standard must be analyzed. This report defines the trade-offs associated with the item considered for inclusion in the printed circuit board standard. Discussed are the specific details that could be standardized to provide a specification which would ensure that resultant equipments reflect minimized Life Cycle Cost. The areas covered include the types of equipment and systems procured by the FAA; state-of-the-art printed circuit board complexity and potential developments; board size; types of connectors; thermal cooling considerations; backplane wiring systems; testing interface; repair considerations; logistics and reliability. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOWO7

AD- 781 717 17/2 5/1

CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGEMENT

Generalized Cost/Performance Trade-Off Analysis. (U)

74 12P Lientz,Bennet P. :
CONTRACT: N00014-69-A-0200-4033
PROJ: NR-049-345

UNCLASSIFIED REPORT

DESCRIPTORS: *Communications networks, Decision making, Costs, Performance(Engineering), Topology, Pattern recognition, Theorems (U)

Cost/performance trade-offs are considered in a generalized framework with application to communication networks involving computation. Techniques of pattern recognition for ill-defined structures are used to develop procedures for obtaining cost/effective network configurations. The methodology is contrasted with several existing methods. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 781 711 12/2 5/3

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Cost and Production Functions - A Survey. (U)

DESCRIPTIVE NOTE: Research rept.,
APR 74 41P Shephard,Ronald W. :
REPT. NO. ORC-74-11
CONTRACT: N00014-69-A-0200-1010
PROJ: NR-047-033, RR003-07
TASK: RR003-07-01

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-779 870.
DESCRIPTORS: *Economics, Production, Costs, Functions(Mathematics), Mathematical models (U)
IDENTIFIERS: *Production functions (U)

Presented is a survey of recent developments in the theory of cost and production functions, contrasting with the notion of a production function as used in econometric studies. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 781 324 4/2

ENVIRONMENTAL PREDICTION RESEARCH FACILITY (NAVY) MONTEREY CALIF

Cost Effectiveness of Typhoon Forecast Improvements. (U)

MAY 74 34P Brand,Samson :Bielloch,Jack W. :
REPT. NO. ENVPREDRSCHF-tech paper-8-74
PROJ: WF52-551-713

UNCLASSIFIED REPORT

DESCRIPTORS: *Typhoons, *Weather forecasting, Cost effectiveness, Storms, Decision making, Evacuation, Tracking, Military facilities, Pacific Ocean (U)
IDENTIFIERS: North Pacific Ocean (U)

Tropical cyclone forecast improvements in the western North Pacific are examined in terms of Department of Defense decision making (evacuation, sortie, preparedness, etc.). The improved decisions are then related directly to Department of Defense potential cost saving. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 781 132 1/3 17/7 19/5 15/5

GENERAL RESEARCH CORP SANTA BARBARA CALIF SCIENCE AND TECHNOLOGY DIV

Cost Analysis of Avionics Equipment. (U)

DESCRIPTIVE NOTE: Final rept. 16 Apr 73-1 Mar 74,
FEB 74 133P Dodson,E. N. ;Kornish,S.
F. ;Liebermann,R. R. ;Waller,W. E. ;
REPT. NO. GRC-CR-1-419-Vol-1
CONTRACT: F33615-73-C-1205
MONITOR: AFAL TR-73-441-Vol-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Avionics, *Cost analysis, Fire control radar, Doppler navigation, Doppler radar, Inertial navigation, Digital computers, Logistics support (U)
IDENTIFIERS: Cost estimating relationships (U)

The report addresses the problem of predicting the development, production, and logistic support cost of avionics equipment well before a detailed description of its physical makeup is known. The approach was to derive parametric cost estimating relationships (CERs) for four types of avionics subsystems: fire control radars, inertial navigators, digital computers, and doppler navigation radars. These CERs are based on technical design variables familiar to the exploratory or advanced development design engineer. The development CERs incorporate an explicit measure of the development program's state-of-the-art advance. The logistic support CERs are functions primarily of equipment first unit cost or cumulative average cost. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 780 986 17/7

COLLINS RADIO CO CEDAR RAPIDS IOWA

River and Harbor Aid to Navigation System (RIHANS) Phase 1-C: System Definition. Volume IV. Cost. (U)

DESCRIPTIVE NOTE: Final rept. Jul 72-Apr 73,
NOV 73 130P Frye,E. ;McLaughlin,R. ;
Dedich,J. ;Bengayer,W. ;Sellers,G. ;
REPT. NO. 52. 0765206-00:81M-Vol-4
CONTRACT: DOT-CG-21411-A
PROJ: CG-7231.2.0

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-780 989 and Volume 5. AD-780 987.
DESCRIPTORS: *Hyperbolic navigation, *Navigational aids, Ships, Surface navigation, Radio beacons, Microwave equipment, All weather, Radio navigation, Radio receivers, Radio transmitters, Short range(Distance), Systems engineering, Costs, Position finding, Rivers, Harbors, Inland waterways, Automatic (U)
IDENTIFIERS: RIHANS(River and Harbor Aid to Navigation Systems), River and harbor aid to navigation systems (U)

The report submits pricing for the Service and User Segments of the RIHANS program. The pricing satisfies the Phase I requirements of the RIHANS program and the guidelines established by the US Coast Guard. It is the intent to illustrate as much cost visibility as possible to enable mutual in-depth evaluation of the costs. Initial cost estimating was performed by the RIHANS Program Engineering Staff. The estimating was accomplished primarily on a quantity one basis. Careful review was given to this estimate, as it was the basis for Manufacturing estimates in the higher quantities involved. The end product has Manufacturing build rates and variances applied. These equipments are quoted in terms of average man-hours and rates as this effort is a cost projection. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 780 908 14/4

POLYTECHNIC INST OF NEW YORK BROOKLYN DEPT OF ELECTRICAL ENGINEERING AND ELECTROPHYSICS

Redundant Spares Allocation to Reduce Reliability Costs-II. (U)

APR 74 20P Shaw,Leonard :
REPT. NO. PINY-EE/EP-74-010, PINY-EER-109
CONTRACT: N00014-67-A-0438-0013
PROJ: NR-042-301

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Sep 73, AD-768 363.
DESCRIPTORS: *Reliability(Electronics), *Redundant components, *Spare parts, Inventory control, Allocations, Metal oxide semiconductors, Integrated circuits, Modules(Electronics), Costs (U)
IDENTIFIERS: Large scale integrated circuits (U)

The problem considered here is the optimal selection of the inventory of spares for a system built from two kinds of modules, the larger of which can be connected so it performs the role of the smaller one. The optimal inventory is the least costly one which achieves a specified probability that the spares will not be exhausted over the design lifetime. For some costs and failure rates it is most economical to use the larger module for both roles, due to the resulting increase in flexibility in the deployment of a single type of spare module. Both analytical and simulation methods have been used to study this problem. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 780 636 21/5 15/5

RAND CORP SANTA MONICA CALIF

Relating Technology to Acquisition Costs. Aircraft Turbine Engines. (U)

MAR 74 81P Nelson,J. R. ;Timson,F. S. ;
REPT. NO. R-1288-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft engines, *Logistics planning, Cost analysis, Procurement, Estimates, Mathematical models, Turbofan engines, Turbojet engines, Thrust, Fuel consumption (U)
IDENTIFIERS: Cost models, Logistics management (U)

The quantitative measure presented in the report is derived from a recent Rand study in which a technique was developed for assessing the date at which an aircraft turbine engine with a specified set of technical parameters should pass its 150-hr Model Qualification Test (MQT). The refined aircraft turbine engine TDA model is based on 26 U.S. military turbojet and turbofan engines developed and produced during the past 30 years. The model predicts the man-rated 150-hr MQT date as a function of certain of the engine's performance and design parameters. The parameters include maximum thrust of the engine at sea-level static conditions, weight, specific fuel consumption at military thrust at sea-level static, turbine inlet temperature, and a pressure term (the product of flight envelope maximum dynamic pressure and the overall pressure ratio of the engine). (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 779 870 5/3 12/2

CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER

Economic Theoretical Structure of Cost-Benefit Analysis. (U)

DESCRIPTIVE NOTE: Research rept.,
MAY 74 19P Shephard,Ronald W. :
REPT. NO. ORC-74-13
CONTRACT: N00014-69-A-0200-1010
PROJ: NR-047-033, RR003-07-01

UNCLASSIFIED REPORT

DESCRIPTORS: *Economics, *Costs, Production, Economic models (U)
IDENTIFIERS: *Production functions, Utility functions, *Benefit cost analysis (U)

For a general model of production structure, various Indirect Production Functions are defined and used to construct cost-return (benefit) relationships. When an ordinal utility function is used for valuation of output vectors, a cardinalization of the values of this function is suggested in terms of the minimal cost of getting output vectors at least as preferred as those of the indifference class to which is associated an ordinal value of V(u). (Author) (U)

AD- 779 870 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 779 861 12/2 15/7

DECISIONS AND DESIGNS INC MCLEAN VA

Decision Theory Research. (U)

DESCRIPTIVE NOTE: Technical progress rept. no. 3, 1 Sep 73-28 Feb 74,
MAY 74 76P Kelly,Clinton W. , III: Peterson,Cameron R. :Brown,Rex V. :Barclay, Scott :
CONTRACT: N00014-73-C-0149, ARPA Order-2271
PROJ: NR-197-023

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-757 117.
DESCRIPTORS: *Decision theory, *Meetings, Probability, Uncertainty, Decision making, Military intelligence, Threat evaluation (U)
IDENTIFIERS: Resource allocation, Benefit cost analysis (U)

A report is presented concerning research for improving human judgments of probabilities and utilities for decision making, and the application of decision theory to problems in resource allocation and policy analysis. Decision theoretic concepts are developed and procedures established for encoding uncertainties as probabilities and incorporating attitudes toward risk into utilities. An approach is developed for translating national level decision making information needs for strategic planning into requirements which have the likelihood of being satisfied under varying options of resource allocation. A methodology is developed for intelligence analyst use of credible internal assessments without the use of sophisticated computer programs. Using as a case study the recent Energy crisis, decision theory analysis is investigated as an appropriate methodology for developing optimum outcomes for various alternatives in national and international policy negotiations. The substance of recent activities for decision analysis application to problems of current and scientific intelligence is reported. Appendix I reports on three Decision Theory Workshops which were conducted in November 1973. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 779 579 5/1 15/3

ARMY WAR COLL CARLISLE BARRACKS PA

Can Cost Analysis Improve Management. (U)

DESCRIPTIVE NOTE: Student essay.
DEC 73 28P Stelmachowicz,Peter J. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Defense systems, *Cost analysis, *Management, Reviews (U)

The essay establishes that defense management is in need of improvement, that although a variety of reasons can be found to explain this situation, cost estimates are a prime culprit. Costs are the common denominator which translated all aspects of a system, no matter how technical or complex, into understandable terms. The paper briefly sketches the dimensions of the problem and provides an insight into cost analysis. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 779 359 15/3

ARMY WAR COLL CARLISLE BARRACKS PA

The 'Should Cost' Concept. (U)

DESCRIPTIVE NOTE: Student essay.
DEC 73 21P Horn,Clifton A. :

UNCLASSIFIED REPORT

DESCRIPTORS: *Department of Defense, *Cost analysis, Management (U)

In an effort to reduce cost growth and overruns on defense contracts, new approach to cost analysis has been developed and implemented by DOD agencies. The new approach, called the 'should cost concept', has been used by all the services with significant savings reported. Some members of congress, Senator William Proxmire in particular, have challenged these claims, suggesting that the costs of performing a should cost study outweigh potential savings. Five of the first studies conducted by the Army have been examined. Of these, two studies were analyzed in detail to determine their value in establishing realistic negotiation objectives, identifying short-and long-range management improvement programs and in achieving cost savings for the government. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 778 836 9/2

ROME AIR DEVELOPMENT CENTER GRIFFISS AFB N Y

Rome Air Development Center R and D Program in Computer Language Controls and Software Engineering Techniques. (U)

APR 74 25P Thayer,Richard H. ;
REPT. NO. RADC-TR-74-80

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programming, *Cost analysis, High level languages, Air Force research (U)

In the procurement of any large scale automatic data processing system, software development costs the United States Air Force three to five times the cost of hardware. These software costs can be attributed to the sheer magnitude of the labor of coding, the extremely high cost of debugging and verifying programs, a low transferability of computer programs between machines and the high cost of maintaining programs which include the elimination of latent errors. Only through automation of software production can the Air Force hope to control software development. This paper looks at the software production cycle, the present problems associated with it and the USAF R and D program in the development of automated techniques for software production. A final challenge is offered on knotty software R and D problems, that, if solved, could further Computer Technology. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 778 765 9/2 9/5

NORTH CAROLINA STATE UNIV RALEIGH DEPT OF ELECTRICAL ENGINEERING

Research Proposal for Minimal Cost Sequential Machines. (U)

JAN 74 69P Staudhammer,John ;
REPT. NO. Rept. no. 1
CONTRACT: DA-ARO-D-31-124-72-G65

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Reprinted with corrections report dated Jan 73.
DESCRIPTORS: *Gates(Circuits), *Logic circuits, Memory devices, Computations, Algorithms, Costs (U)
IDENTIFIERS: *Asynchronous sequential circuits, Flip flops, *Sequential machines, Logic design (U)

The state assignment problem for minimal logic required for a general synchronous machine is conceded to be a computationally intractable problem. However research conducted here over the last 18 months indicates that a realistic lower limit may be found on the logic required and that the procedures used to calculate this limit may be taken as a basis for guiding the state assignment such that a circuit approaching this limit may be obtained. Furthermore, the procedure may be used to decide on the kind of memory element to be used. It is proposed to extend these preliminary results to asynchronous machines, to incompletely specified machinenes, and to include output considerations. Further it is proposed to consolidate these findings in a set of algorithms which give an acceptably good state assignment for arbitrary, nontrivial machines. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 778 634 5/3

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Cost of Living Adjustment for Military Personnel. (U)

DESCRIPTIVE NOTE: Master's thesis.
MAR 74 87P Miletich,Cristobal S. ; Chien,Jen Ter ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Military personnel, *Indexes(Ratios), Costs, Consumers, Economic models, Finance, Food, Housing(Dwellings), Medical services, Clothing, Purchasing, Civilian personnel, Theses (U)
IDENTIFIERS: *Consumer price indexes, *Cost of living (U)

The study presents an analysis of the differences in the cost of living between civilian and military families. An index analogous to the Consumer Price Index (CPI) is constructed for military personnel. In constructing this new index the authors discuss both the theoretical and empirical basis for the existing Consumer Price Indices. The authors obtain this modified CPI for the military (MCPI) using two approaches. First they construct a new index considering only the effect on the CPI of those commodities available either free or at reduced prices to military personnel. Second they construct a military counterpart of the CPI considering only the unique geographic distribution of the military personnel. The results suggest that the MCPI has risen less rapidly than the CPI during the period 1961-1970. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 778 612 15/5 14/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA PROGRAM ANALYSIS DIV

A Quantitative Examination of Cost-Quantity Relationships, Competition during Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume I. Executive Summary. (U)

DESCRIPTIVE NOTE: Final rept..
MAR 74 59P Zusman,Morris ;Asher,Norman ;Wetzler,Elliot ;Bennett,Debbie ;Gustaves.. Selmer ;
REPT. NO. S-429
CONTRACT: DAHC15-73-C-0200
MONITOR: IDA/HQ 73-15739

UNCLASSIFIED REPORT

DESCRIPTORS: *Military procurement, *Industrial procurement, *Cost analysis, Cargo ships, Cargo aircraft, Production (U)
IDENTIFIERS: *Cost comparison, Competition (U)

The report presents the results of the study which was divided into the following three interrelated subtasks: (1) an analytical and empirical examination of cost-quantity relationships with the objective of laying the framework for other parts of the study and attempting to identify factors other than cumulative units that might be incorporated in the progress curve; (2) an examination of competitive procurements with the objective of examining quantitatively the effect of competition on selling price; and (3) a comparison of prices paid for similar military and commercial equipment with the objective of testing quantitatively the hypothesis that commercial procurement practices are superior to military procurement practices and that, as a result, commercial equipment costs less than similar military equipment. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 778 597 1/1 1/3

ADVISORY GROUP FOR AEROSPACE RESEARCH AND DEVELOPMENT PARIS (FRANCE)

AGARD Highlights. March 1974. (U)

MAR 74 31P
REPT. NO. AGARD-Highlights-74/1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: NATO furnished.
DESCRIPTORS: *Aeronautical engineering, *Costs, *Systems engineering, Aircraft, Air pollution, Technology, Wind tunnels, Reviews, Meetings (U)

The issue takes up some of the problems related to economy in view of the steadily increasing costs of maintaining modern, credible defense forces. The economic implications relating to aircraft design optimization, considering the relevance of cost, are also treated. One presents some views on the particular problems posed by atmospheric pollution by aircraft, and why these issues should be of interest to all the military. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 777 895 1/3 20/1 21/5

DOUGLAS AIRCRAFT CO LONG BEACH CALIF

DC-9 Noise Retrofit Feasibility. Volume II. Upper Goal Noise, Performance and Cost Evaluation. (U)

DESCRIPTIVE NOTE: Final rept. Jan-Sep 73.
DEC 73 159P Shallon,H. D. :
REPT. NO. MDC-J4356
CONTRACT: DOT-FA72WA-3116
MONITOR: FAA-RD 73-124-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Nov 73. AD-776 127.
DESCRIPTORS: *Passenger aircraft, *Jet engine noise, *Noise reduction, Jet engines, Jet engine nacelles, Experimental design, Exhaust nozzles, Modification, Cost analysis (U)
IDENTIFIERS: DC-9 aircraft, *Retrofit, JT8D-9 engines (U)

The work described in the report covers the work performed in Phase II of this program. This Upper Goal nacelle configuration study was directed toward noise reduction goals of 4, 4, 5, and 10 EPNdB at the Federal Aviation Regulations (FAR) Part 36 sideline, takeoff, cutback, and approach measurement conditions, respectively. Exhaust system development tests were conducted on an engine static test stand to evaluate the Upper Goal exhaust system. Components of the Upper Goal nacelle were designed and fabricated. The components were ground static tested for effect on engine performance and noise. The initial daisy-with-ejector configuration showed good acoustical results but with unacceptable performance losses, even after a number of modifications. An alternative configuration, using the same test hardware but adjusted to provide quieting by enlarging the nozzle area, essentially met acoustical and performance requirements. Static tests demonstrated predicted inflight noise reductions of 4.7, 4.0, 3.9, and 10.1 EPNdB at the sideline, takeoff, cutback, and approach measurement conditions, respectively, which approximate the FAA Upper Goal values. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 777 884 13/10

HYDRONAUTICS INC LAUREL MD

Concept Design and Cost Analysis of Restricted Draft Dry Bulk Carriers. (U)

DESCRIPTIVE NOTE: Final technical rept. 22 Dec 72-21 Jul 73,
NOV 73 174P Roseman,Donald P. ;Peters, Geoffrey W. ;Lain,Horton W. ;
REPT. NO. TR-7330-1
CONTRACT: DACW73-73-C-0043
MONITOR: IWR 74-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Cargo ships, *Ship hulls, Depth control, Harbors, Experimental design, Cost analysis, Cargo, Seakeeping (U)
IDENTIFIERS: *Restricted draft vessels, Beam to draft ratios (U)

The development of restructed draft dry bulk carriers is recognized as a means for reducing transportation costs by permitting the operation of larger vessels out of existing ports. For three given drafts, a parametric computer design study of deadweight capacity and corresponding dimensions and form characteristics is carried cut to determine maximum feasible deadweight, subject to assumed physical boundary conditions and economic considerations. Restricted draft ship characteristics selected for the study are developed into concept designs by conventional design methods. For resulting characteristics and costs are compared with conventional deep draft vessel characteristics and costs. Finally, technical problem areas associated with restricted draft ship designs are recognized and discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 777 867 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

The Applicability of 'Should Cost' to the Procurement Process. (U)

DESCRIPTIVE NOTE: Master's thesis,
MAR 74 44P Haight,Richard William ;

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Military procurement, *Costs, Logistics planning, Theses (U)
IDENTIFIERS: Cost estimates, *Should cost analysis (U)

As major weapons systems become more complex, it becomes increasingly more difficult to accurately estimate the cost. Various costing techniques have been used in an attempt to accurately estimate the contract price of modern weapon systems with varying degrees of success. 'Should cost' analysis has become increasingly more important, in the eyes of some, as the best approach in a noncompetitive procurement situation. Currently, the Army, the Air Force, the Navy and GAO all conduct 'should cost' studies using various approaches. In the paper, an attempt is made to gain the feelings of Defense contractors concerning the application of Government 'should cost' analysis. The author of the paper has made several recommendations, based upon data available, concerning the limitations of and the application of 'should cost' analysis. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 777 864 15/5

AIR FORCE INST OF TECH WPIGHT-PATTERSON AFB OHIO SCHOOL OF ENGINEERING

A Methodology for Determining Investment Costs for Automated Storage Facilities. (U)

DESCRIPTIVE NOTE: Master's thesis.
FEB 74 175P Wilhelm,John P. ;Castle, Richard S. ;
REPT. NO. GSA/SM/74-4

UNCLASSIFIED REPORT

DESCRIPTORS: *Warehouses, *Investments, *Costs, Computerized simulation, Automation, Computer programs, Materials handling vehicles, Conveyors, Theses, Military research (U)
IDENTIFIERS: Economic analysis (U)

The study forms one input to a continuing investigation by DoD agencies into the economy of warehouse modernization. Specifically, this study focuses on the 1980 time frame and attempts to describe a methodology for predicting the investment costs for an automated DoD storage facility. The facility design used is the one found in the Phase II Final Report of Task Group 5-70, the group established in 1971 to study modernization of DoD storage facilities. The study presents a computer model which calculates investment costs for the building and the equipment of the proposed facility. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 777 623 12/2

UTAH UNIV SALT LAKE CITY

Optimum Adjustment Policy for a Product with Two Quality Characteristics. (U)

73 8P Kennedy,William J. , Jr.; Ghare,Prabakhar M. ;

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v20 n4 p785-791 Dec 73.
SUPPLEMENTARY NOTE: Prepared in cooperation with Virginia Polytechnic Inst. and State University, Blacksburg, Va.
DESCRIPTORS: *Costs, *Statistical analysis, Probability density functions, Random variables, Adjusting (U)
IDENTIFIERS: *Prices, *Products, *Price adjustments (U)

The authors consider the problem of determining an optimal adjustment policy when the price received for the product is a function of a stated quality measure. When this quality measure has a specified value, maximum price can be received. As the quality measure deviates from the specified value the price received drops progressively. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 777 572 1/3 14/1

LTV AEROSPACE CORP DALLAS TEX VOUGHT SYSTEMS DIV

Limit Criteria for Low Cost Airframe Concepts. (U)

DESCRIPTIVE NOTE: Final rept. May-Nov 73.
OCT 73 108P Yarbrough,S. H. ;Cleaveland, W. B. ;Reingold,A. ;
REPT. NO. 2-57110/3R-3126
CONTRACT: F33615-73-C-3126
PROJ: AF-1368
TASK: 136801
MONITOR: AFFDL TR-73-140

UNCLASSIFIED REPORT

DESCRIPTORS: *Airframes, *Cost analysis, Structural members, Costs, Assessment, Machine shop practice, Value engineering, Jet fighters (U)
IDENTIFIERS: A-7 aircraft, A-7D aircraft (U)

The report presents the results of a study program which evaluated the primary cost factors of selected airframe baseline components and alternate designs compatible with low cost concepts. The data from this study is compiled and presented in a ready reference format defined as the 'Limit Criteria.' Six A-7D aircraft components representing the characteristic stress types were selected as the baseline designs, then a minimum of two or more alternate designs were selected for each component. The baseline and alternates were analyzed and estimated on the basis of strength, stiffness, fracture toughness, weight and cost. Weight and cost of the design variations was plotted on a Cost/Weight/Value Diagram of each component for direct comparison of current design results. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 777 471 10/1

BOOZ-ALLEN AND HAMILTON INC BETHESDA MD

Alternative Strategies for Optimizing Energy Supply, Distribution, and Consumption Systems on Naval Bases. Volume 1: Near-Term Strategies. .U)

DESCRIPTIVE NOTE: Final rept. May-Nov 73.
NOV 73 174P Consroe,T. ;Hatcher,S. ; Nicholas ,J. ;Mateyka,J. ;Shaw,R. ;
REPT. NO. BA-9005-364
CONTRACT: N62399-73-C-0029
MONITOR: CEL CR-74.006

UNCLASSIFIED REPORT

DESCRIPTORS: *Energy, *Naval shore facilities, Utilization, Consumption, Energy conservation, Optimization, Cost effectiveness (U)

The report describes an assessment of alternate strategies for optimizing energy supply, distribution, and consumption systems on naval bases. It contains the results of cost/benefit analyses of six near-term energy conservation strategies applicable to continental United States (CONUS) naval base.. Implementation of these energy conservation strategies would not require research and development (R AND D) expenditures and would result in an energy savings roughly equivalent to 11 percent of current CONUS Navy energy use. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 777 457 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

The Contractual Implications of the Design-to-Cost Concept. (U)

MAR 74 49P
REPT. NO. LMI-74-1
CONTRACT: SD-32[illegible]
PROJ: SD-321-E

UNCLASSIFIED REPORT

DESCRIPTORS: *Military equipment, *Logistics planning, Military procurement, Cost analysis, Contracts, Scheduling, Life cycles, Research management, Management planning and control (U)
IDENTIFIERS: *Logistics management, *Design to cost, *Contract management (U)

The report analyzes and presents conclusions and 12 recommendations on application of the design-to-cost concept from the contracting and procurement viewpoint. A primary conclusion was that design-to-cost does not require the use of any unique contracting techniques. A short chapter on the concept noted that design-to-cost is really a change in emphasis rather than a radical change in procurement philosophy. The relationship between design-to-cost and a number of topics were explored. The more significant relationships discussed included the statement of acquisition parameters, the type of contract to be used, the flexibility of contracting/program authority, life cycle costing, the imposition of military standards, the need for regulatory changes, the role of competition, the criteria for application, participation of the using commands and agencies, and contractor motivation. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 777 456 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

Criteria for Evaluating Weapon System Reliability, Availability and Costs. (U)

MAR 74 110P
REPT. NO. LMI-73-11
CONTRACT: SD-321
PROJ: SD-271-185

UNCLASSIFIED REPORT

DESCRIPTORS: *Weapon systems, *Systems engineering, Logistics planning, Costs, Maintenance, Reliability, Life cycles, Mathematical models (U)
IDENTIFIERS: *Logistics management (U)

The purpose of this task was to determine the relationships among system and subsystem reliability, availability and life cycle costs. To accomplish this a model was constructed to determine the optimum reliability for each of the subsystems that comprise a system such that the total life cycle cost of the system, as affected by reliability, is minimized. Three principal submodels were constructed. These are: cost of system downtime (costs to achieve constant mission requirements) resulting from imperfect reliability, design, development, test, acquisition, and program management costs associated with achieving reliability; and maintenance and support costs affected by subsystem reliability. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO Z0MO7

AD- 777 441 4/2

NATIONAL WEATHER SERVICE SILVER SPRING MD SYSTEMS PLANS AND DESIGN DIV

Some Results from Applying a Cost-Effectiveness Model for Evaluating Aviation Weather Dissemination Techniques. (U)

DESCRIPTIVE NOTE: Final rept. Apr 72-Dec 73.
DEC 73 77P Newhouse.Henry :
CONTRACT: DOT-FA72WAI-283
PROJ: FAA-132-422-062
MONITOR: FAA-RD 73-128

UNCLASSIFIED REPORT

DESCRIPTORS: *Weather communications, *Aviation safety, *Cost effectiveness, Weather forecasting, Flow charting (U)
IDENTIFIERS: Performance evaluation (U)

Some results were obtained from a cost-effectiveness model which was developed for evaluating the performance of various combinations of aviation weather dissemination techniques. Basic data on which the model operates consist of distributions of registered general aviation aircraft, air traffic activity and total flight services, FAA forecasts of growth in general aviation during the next decade, and the cost of various dissemination techniques and facilities. These data are used to generate estimates of demand in a 26 x 60 matrix of 1 degree squares covering the 48 states. Dissemination technique effectiveness values are arrived at largely through two factors--accessibility and usefulness--which were obtained via a Delphi approach. As part of the model's output, measures of system performance are given in terms of percentage of demand satisfied by the total system, each technique, and each portion of the flight profile. Computations give cost-per-demand served, cost of the total system plus overhead, and the cost of each technique in terms of capital, operating, and personnel costs. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 777 354 12/2

PENNSYLVANIA STATE UNIV UNIVERSITY PARK

The Development and Evaluation of a Cost-Based Composite Scheduling Rule. (U)

74 16P Aggarwal.Sumer C. :McCarl. Bruce A. :

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v21 n1, p155-169 Mar 74.
DESCRIPTORS: *Jobs, *Scheduling, Costs, Inventory control, Experimental design, Analysis of variance, Tables(Data) (U)
IDENTIFIERS: Rank order statistics, *Job shop scheduling (U)

A cost-based composite scheduling rule is developed and evaluated in comparison with three other well-researched scheduling rules--SPT, S/OPN, and SST. This cost rule permits the optimization of more than one performance measure at a time. The priority number that is used for scheduling operations through each machine group is based on four separate performance measures--(1) In-process Inventory, (2) Facilities Utilization, (3) Lateness, and (4) Mean Setup Time. The factorial experimental design involved three factor levels of loads, three factor levels of cost, and three factor levels of mean time. Analysis of variance was performed on each of the five output measures to study the effects of each of the three factors on each individual rule. Rank-order comparisons between rules were also made; and, finally, general conclusions with regard to the effectiveness and flexibility of the Cost Rule were drawn. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 777 256 15/5 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO

The Affect of Wipics on the F4-B to N Conversion Program. (U)

DESCRIPTIVE NOTE: Final rept. Jun 73-Apr 74,
APR 74 47P Womer,Norman K. :
REPT. NO. AFIT-TR-74-5
MONITOR: AU 5-1974-4FIT-ENS

UNCLASSIFIED REPORT

DESCRIPTORS: *Jet fighters, *Modification, *Inventory control, *Cost effectiveness, Cost analysis, Conversion, Air force equipment, Labor (U)
IDENTIFIERS: *WIPICS(Work In Process Inventory Control), *Work in process inventory control, F-4B aircraft, F-4 aircraft, F-4N aircraft (U)

The report provides the underlying theory and methods used to determine the affect of the Work in Process Inventory Control System (WIPICS) on the F4-B to N conversion program and the Naval Air Rework Facility, North Island, California. The report documents cost savings of 3.24% of the 'before' WIPICS. It also concludes that these cost savings are statistically significant at the 10% level. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 777 249 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

Suggested Methods for Implementation of Life Cycle Costing Techniques in the Procurement of Air Force General Purpose Commercial Vehicles. (U)

DESCRIPTIVE NOTE: Master's thesis.
JAN 74 86P Karsten,Ernst R. :
McDaniel,Larry T. :
REPT. NO. SLSR-9-74A

UNCLASSIFIED REPORT

DESCRIPTORS: *Air force procurement, *Vehicles, *Life cycles, *Costs, *Logistics planning, Air force budgets, Maintenance, Theses (U)
IDENTIFIERS: *Life cycle costing (U)

With decreasing Department of Defense budgets it is becoming more important to cut procurement cost and at the same time receive more for the money spent. One procurement method with this capability is Life Cycle Costing (LCC). Since vast sums of Air Force money are being spent each year on commercial vehicles, the LCC procurement method could become a viable alternative in their acquisition. The thesis is a study of two LCC techniques which could be applied in this acquisition. These methods are: Total Life Costing and Guaranteed Maintenance. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 777 247 15/5 1/3

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

A Cost-Benefit Analysis of Competitive Versus Sole Source Procurement of Aircraft Replenishment Spare Parts. (U)

DESCRIPTIVE NOTE: Master's thesis.
JAN 74 120P Olson,Alan E. ;Cunningham, James A. ;Wilkins,Donald J. ;
REPT. NO. SLSR-21-74A

UNCLASSIFIED REPOR.

DESCRIPTORS: *Aircraft equipment, *Spare parts, *Ai. Force procurement, *Cost analysis, Savings, Analysis of variance, Theses (U)
IDENTIFIERS: *Benefit cost analysis, Competition, Prices (U)

The objective of this research was to determine the effect of competition on the cost of aircraft replenishment spare parts. A conceptual model was presented which depicts the relationships between the various cost factors and the identifiable benefits of competition. It indicates that the net savings (loss) accompanying a shift from sole-source to competitive procurement is a function of gross savings (loss) in procurement dollars, procurement data costs, administrative costs, quality costs, and reliability costs. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 777 246 15/5

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

The Impact on Avionic Logistic Support Costs of False Maintenance Actions. (U)

DESCRIPTIVE NOTE: Master's thesis.
JAN 74 86P Pickard,George W. ;Waterman, Quintin L. ,
REPT. NO. SLSR-23-74A

UNCLASSIFIED REPORT

DESCRIPTORS: *Logistics support, *Avionics, *Life tests, *Costs, Failure, Maintenance, Regression analysis, Theses (U)

The objectives of the research were (1) to describe, quantitatively, the impact of remove, test OK occurrences on base level logistic support costs and (2) to derive a model to predict these occurrences in terms of information available prior to system acquisition. Such a model will increase the accuracy of predicted logistic support costs for new or proposed systems. Limiting the scope of the research effort to base level, avionic, line replaceable unit maintenance, the authors selected a sample of 100 units from four aircraft currently in the AF inventory. The analysis reveals that test OK occurrences represent thirty percent of the suspected failures which are removed from the aircraft for repair. Twenty three percent of the manhours consumed to base level avionic maintenance were involved with a test OK unit. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 777 130 13/10 15/3

TETRA TECH INC PASADENA CALIF

Study of Commercial Specifications for U. S. Navy Ships. (U)

DESCRIPTIVE NOTE: Final rept. Jan - Jun 73 on Phase 1,
SEP 73 203P Friedland,Nathan :
REPT. NO. TT-TC-330
CONTRACT: N00014-73-C-0282

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval vessels, *Government procurement, *Specifications, Ship structural components, Electronic equipment, Steel, Shipbuilding, Cost analysis, Military requirements (U)
IDENTIFIERS: *Benefit cost analysis, *Design to cost (U)

Military and commercial specifications for shipbuilding steel, electronics, and ship subdivision have been compared. It was found that steels used in building merchant and combat ships are so similar that using a simplified set of integrated specifications would result in savings without appreciable reduction in strength and durability. Electronic equipment is so complex and varied that a similar approach is possible only in limited cases. Merchant marine subdivision standards are not suitable for naval use. A survey of all specifications used in the shipbuilding industry is desirable, with a view to establishing an integrated system of specifications suitable for military and commercial shipbuilding, to the mutual benefit of both sectors. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 777 121 9/2

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH ARLINGTON VA

Proceedings of a Symposium on the High Cost of Software Held at the Naval Postgraduate School, Monterey, California, on September 17-19, 1973. (U)

SEP 73 146P Goldberg,Jack :

UNCLASSIFIED REPORT

DESCRIPTORS: *Computer programs, *Costs, *Meetings, Cost analysis, Production, Maintenance, Programming languages, Semantics (U)
IDENTIFIERS: Design (U)

The Monterey Symposium on the High Cost of Software was held in September 1973, under the joint sponsorship of the Air Force Office of Scientific Research, the Army Research Office, and the Office of Naval Research. The objective of the symposium was to consider what research is needed to achieve a major reduction in software costs. Attendance was by invitation. The 97 attendees were organized in five workshops. The attendees were in strong agreement that direct and indirect software costs are unnecessarily high and are growing rapidly, that they constitute a serious limitation on the effectiveness of information-processing systems, and that the high cost is a consequence of the poor state-of-the-art of software design, production, and maintenance. There was a strong feeling of urgency that an energetic program of research be undertaken to advance the software art. The workshop discussions resulted in two sets of recommendations for a service-supported research program. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 776 962 14/5 15/5

BEEMAN ENGINEERING ASSOCIATES INC BOONTON N J

Cost Benefits Study - Interim 16mm Microfilm Container and Reel Assembly. (U)

DESCRIPTIVE NOTE: Interim rept. no. 5, MAR 74 90P Barton,H. A. ;
CONTRACT: DAAA21-72-C-0515
PROJ: DA-1F-E-865803-M-726
MONITOR: EDS/R 27U

UNCLASSIFIED REPORT

DESCRIPTORS: *Microfilm, *Containers, *Cost analysis, *Military procurement, Standardization, Inventory control, Data storage systems, Logistics, Military equipment, Surveys (U)
IDENTIFIERS: Benefit cost analysis (U)

The report provides technical, operational and cost information relative to the procurement and use by the government of the DoD Interim 16MM Microfilm Container and Reel Assembly. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 776 939 21/5 15/5

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Major Item Special Study (MISS), AH-1G Gas Turbine Engine (T53-L-13B). (U)

DESCRIPTIVE NOTE: Interim rept. 1 Jan 64-Jul 73. APR 74 23P
REPT. NO. USAAVSCOM-TR-74-20

UNCLASSIFIED REPORT

DESCRIPTORS: *Gas turbines, *Helicopter engines, *Logistics planning, Helicopters, Failure, Removal, Costs, Savings, Reliability (U)
IDENTIFIERS: T-53 engines, T-53-L-13B engines, AH-1G aircraft, H-1 aircraft, H-1G aircraft, *Maintenance support planning, *Maintenance management, 3-M system, *Maintenance data collection, Huey Cobra (U)

The report is designed to illustrate cost savings which would result from specific efforts in the areas of product improvement in quality and design. For the purpose of this study the cost savings produced in the area of product improvement are based on total elimination of a certain failure mode or modes. Appropriate modes are chosen because of their proportion of the total removals or their proportion in combination with other similar modes. These eliminated removals are then assumed to follow the distribution of the remaining removal modes. The actual cost savings are determined from the increase in the mean time to removal based on the new removal distributions. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 776 938 15/5

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO

Guidelines for Preparing Economic Analysis for Army Aircraft Product Improvement Proposals. (U)

DESCRIPTIVE NOTE: Final rept.,
MAR 74 23P Kassos,Anthony G. , Jr;
REPT. NO. USAAVSCOM-TR-74-18

UNCLASSIFIED REPORT

DESCRIPTORS: *Army aircraft, *Procurement, *Cost analysis, Logistics, Cost effectiveness, Savings, Safety (U)
IDENTIFIERS: Product improvement proposals (U)

The report contains the text of a presentation given by the AVSCOM Cost Analysis Division on 8 January 1974 to representatives from the various Directorates and Project Management Offices of AVSCOM. The purpose of the presentation was to provide AVSCOM Produce Improvement Proposal (PIP) proponents with guidelines in preparing the economic analysis required for FY 76 PIP submittals to AMC. This report addresses all available guidance as of this date. It is intended as an introduction to economic analysis for the PIP proponent who is unfamiliar with this discipline, but must prepare an analysis for his PIP submission. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 776 914 9/5 17/7

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB

Summary of Results of Antenna Design Cost Studies. (U)

FEB 74 81P Sureau.J. C. :
REPT. NO. ATC-22
CONTRACT: F19628-73-C-0002. DOT-FA72WAI-261
PROJ: FAA-034-241-012
MONITOR: FAA-RD 74-20

UNCLASSIFIED REPORT

DESCRIPTORS: *Radar antennas, *Air traffic control systems, Radar beacons, Cost analysis, Cost effectiveness (U)
IDENTIFIERS: Design, DABS(Discrete Address Beacon Systems), Discrete address beacon systems (U)

The Discrete Address Beacon System (DABS) will provide the primary Air Traffic Control (ATC) surveillance information for the 1980-1990 time period as it is introduced gradually as a replacement for the present Air Traffic Control Radar Beacon System (ATCRBS). This report discusses and summarizes the results of two DABS antenna system design-cost trade off studies performed by industrial concerns with substantial design, fabrication and field maintenance experience related to similar antenna systems now in the field. The data from these studies, was to be used to support other Lincoln Laboratory DABS studies leading to the definition and specification of a cost-effective system design. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 776 808 5/2

SYRACUSE UNIV N Y

Data Management Systems for Structured Information Retrieval. (U)

DESCRIPTIVE NOTE: Interim rept. Jul 71-Jul 72,
FEB 74 48P Groner,Leo H. ;Goel,Amrit L. ;
REPT. NO. TR-72-3
CONTRACT: F30602-72-C-0281
PROJ: AF-5581
TASK: 558102
MONITOR: RADC TR-73-410

UNCLASSIFIED REPORT

DESCRIPTORS: *Information retrieval, *Data management, *Cost effectiveness, Data processing, Information centers, User needs, Computer programming (U)

The report describes some of the advantages and problems of using generalized data base management systems in information retrieval. A particular system, Data Manager -1, was studied to derive use and cost criteria. System costs were then obtained as a function of cost components and user demands for outputs. The methodology developed has been applied to a set of design problems relevant to GDMS/IR data base design. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 776 781 15/5 13/13

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Economic Analysis of the Relevant Costs in Air Force Building Replacement. (U)

DESCRIPTIVE NOTE: Master s thesis.
JAN 74 104P Andrews,Melville M. , Jr.; Joines,Jack L. ;
REPT. NO. SLSR-17-74A

UNCLASSIFIED REPORT

DESCRIPTORS: *Air force facilities, *Buildings, *Cost analysis, *Replacement, Costs, Maintenance, Construction, Mathematical analysis, Theses, Life expectancy (U)
IDENTIFIERS: Present worth, Depreciation (U)

The thesis describes and analyzes the relevant costs in an Air Force building replacement consideration and illustrates, through the use of economic analysis, the effects of the described relevant costs on the replacement decision. A regression analysis is accomplished to illustrate a method of predicting maintenance expenditures. Building deterioration, obsolescence, and effectiveness are discussed in terms of their effects on maintenance costs and performance of the assigned function. An economic analysis of a hypothetical replacement consideration illustrates the sensitivity of the replacement decision to inclusion of the costs of obsolescence and reduced functional performance. Deferred maintenance is assessed in terms of its effect on functional performance. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 776 539 15/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Auditing Cost-Effectiveness Analyses of Technological Changes. (U)

DESCRIPTIVE NOTE: Final rept. Apr 72-Nov 73,
NOV 73 105P Hartman,James K. ;Womer,N. K. ;
REPT. NO. NPS-55HH73121A

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval aircraft, *Maintenance, *Cost effectiveness, Inventory control, Jobs, Production, Linear programming, Economic models, Statistical analysis (U)
IDENTIFIERS: WIPICS(Work In Process Inventory Control System), Work in process inventory control system, Production functions, Naval Air Rework Facilities (U)

A methodology is developed for auditing cost effectiveness analyses of major technological changes. The methodology is applied to the Work in Process Inventory Control System (WIPICS) recently implemented at NARF, North Island. The approach involves using data on NARF operations to estimate cost functions for each major program of the NARF both before and after the change. Cost comparisons using these models do not show a clear cost savings for the WIPICS system. (Author) (U)

AD- 776 539

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 776 140 17/7

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB

A Summary of the DABS (Discrete Address Beacon System) Transponder Design/Cost Studies. (U)

DESCRIPTIVE NOTE: Project rept.,
MAR 74 44P Goblick,T. J. ;Robeck,P. H. ;
REPT. NO. ATC-27
CONTRACT: F19628-73-C-0002, DOT-FA72WAI-261
MONITOR: FAA-RD 74-17

UNCLASSIFIED REPORT

DESCRIPTORS: *Air traffic control systems, *Transponders, Radar beacons, Cost analysis, Costs, Avionics (U)
IDENTIFIERS: DABS(Discrete Address Beacon Systems), Discrete address beacon systems, ATCRBS(Air Traffic Control Radar Beacon Systems), Air traffic control radar beacon systems (U)

One of the major concerns in the DABS development program has been the cost of the DABS transponder. In order to realistically assess the impact on transponder cost of the many alternative techniques and design choices being considered for DABS, four study contracts were awarded to avionics manufacturers to design and estimate costs of special circuitry (in Phase I) and complete transponders (in Phase II). The report summarizes the major results of these design/cost studies, which cover general aviation, military, and air carrier transponder designs (including a retrofit kit for the military APX-72 transponder). The transponder design/cost studies have had a marked influence on the design of the DABS signal and message formats. Since the cost studies were basically intended for comparing link options for DABS, the transponder specifications used in these cost studies do not correspond in detail to current DABS transponder specifications. Therefore the cost data contained in this report cannot be taken to be completely representative of the cost of the finally specified DABS transponders. (Author) (U)

AD- 776 140

UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 776 127 1/2

DOUGLAS AIRCRAFT CO LONG BEACH CALIF

DC-9 Noise Retrofit Feasibility. Volume I. Lower Goal Noise, Performance and Cost Evaluation. (U)

DESCRIPTIVE NOTE: Final rept. Jan 72-May 73, NOV 73 188P Dunbar,W. R. ;
REPT. NO. MDC-J4355A
CONTRACT: DOT-FA72WA-3116
MONITOR: FAA-RD 73-124-1

UNCLASSIFIED REPORT

DESCRIPTORS: *Aircraft noise, *Noise reduction, *Exhaust systems, *Control systems, Engine nacelles, Test methods, Static tests, Flight testing, Performance(Engineering), Jet transport planes, Cost analysis, Thrust, Endurance(General) (U)
IDENTIFIERS: DC-9 aircraft, Evaluation (U)

The report covers the work performed in Phase 1, ground test and flight test, of the program. Exhaust system development tests were condcuted on an engine static test stand to evaluate the lower goal exhaust system. Prototype components of the lower goal nacelle were designed and fabricated. The prototype components were tested for effect on engine performance and noise, and for effect on the compatibility with the JT8D engine. A 100-hour durability test was performed, cycling the prototype nacelle through an accelerated simulated duty mission. A complete loads and stress analysis of the nacelle/airframe structure was performed. The inlet was tested in the icing tunnel for anti-icing bleed requirements and was tested for structural capability to withstand hail and bird impact. A 20% thrust coefficient model was tested over a range of engine pressure ratios. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 776 028 9/2

RAND CORP SANTA MONICA CALIF

A Computer Centralization Cost Model for Conceptual Design. (U)

SEP 73 59P Seals,Eugene ;Drezner, Stephen M. ;
REPT. NO. P-1258-PR
CONTRACT: F44620-73-C-0011

UNCLASSIFIED REPORT

DESCRIPTORS: *Central processing units, *Job analysis, *Cost analysis Systems analysis, Air Force, Communication equipment, Input output devices, Memory devices, Computer programming, Maintenance, Manpower (U)

The report describes a computer model developed to help investigate the costs of centralizing U.S. Air Force base-model computation workload. The model permits the analyst to estimate the cost of consolidating multiple existing or proposed facilities into fewer facilities. The report describes the model, the assumptions implicit in its world view, and the inputs required by the analyst. The limitations of the model and possible future modifications are also discussed. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 775 698 1/3 13/8 14/1

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO SCHOOL OF SYSTEMS AND LOGISTICS

An Analytical Approach to Optimizing Airframe Production Costs as a Function of Production Rate. (U)

DESCRIPTIVE NOTE: Master's thesis,
JAN 74 174P Fazio,Peter F. ;Russell, Stephen H. ;
REPT. NO. SLSR-30-74A

UNCLASSIFIED REPORT

DESCRIPTORS: *Airframes, *Production control, *Costs, Industrial production, Government procurement, Aircraft industry, Scheduling, Optimization, Theses (U)

The objective of the research is to analyze all elements of airframe production cost in terms of their sensitivity to production rate and to identify a methodology which will optimize rate of production with respect to total airframe costs for a fixed procurement quantity. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 775 628 17/2.1 22/2 15/7

PRC SYSTEMS SCIENCES CO MCLEAN VA

Development of Cost Estimating Relationships for FLEETSATCOM. Volume I. (U)

DESCRIPTIVE NOTE: Final rept. 15 Jun 73-14 Jan 74,
JAN 74 177P Brussell,Eugene R. ;Heyer, Fernando ;
REPT. NO. PRC-R-1800
CONTRACT: N00014-73-C-0[illegible]

UNCLASSIFIED REPORT

DESCRIPTORS: *Satellite communications, *Communication networks, *Cost analysis, Communication satellites, Data transmission systems, Data processing systems, Data links, Ground support equipment, Costs (U)
IDENTIFIERS: *Cost estimating relationships (U)

Historical data relating to the cost and physical and performance characteristics of equipment comparable to the FLEETSATCOM system elements have been collected and analyzed. CER's that relate the cost to performance or physical parameters have been derived for the FLEETSATCOM system elements. Estimates of the cost uncertainty associated with each of the FLEETSATCOM system elements have been incorporated into a computer program with the resultant output a probability distribution of the costs of the total FLEETSATCOM system. Finally, throughout the report the CER's have been validated by applying them to the technical and physical parameters and for the planned quantities, as of September 1973, of the FLEETSATCOM system elements. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 775 472 20/14 9/5

GEORGIA INST OF TECH ATLANTA ENGINEERING EXPERIMENT STATION

Study of Comparative Costs for Far-Field Antenna Patterns Determined by Near-Field Measurements and by Far-Field Measurements. (U)

DESCRIPTIVE NOTE: Final rept. 15 Jan 73-31 Jan 74,
JAN 74 76P Rodrigue,G. P. ;Burns, Charles P. ;
REPT. NO. GIT-A-1498
CONTRACT: DAAH01-73-C-0430

UNCLASSIFIED REPORT

DESCRIPTORS: *Antenna radiation patterns, *Phased arrays, Near field, Far field, Cost analysis (U)

Antenna pattern measurement costs for both acceptance testing and production testing of a large phased array were determined for both near-field and far-field measurement techniques. Operating costs depend on the thoroughness to which the antenna is tested. Extremely large amounts of data can be generated very efficiently using the near-field technique. However, most test programs are limited by budget and time considerations to a relatively small volume of data. Since requirements for more data would always favor the near-field techniques, a limited set of measurements comparable to previous far-field measurement experience was used. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 775 329 13/10 11/6

BOEING CO SEATTLE WASH NAVAL SYSTEMS DIV

Trade-Off Study for Materials and Fabrication Processes for Advanced High Performance Ship Applications. Volume II. Appendices. (U)

DESCRIPTIVE NOTE: Final rept. 15 Jun 73-28 Feb 74,
FEB 74 253P Bosworth,Thomas J. :
REPT. NO. D180-17941-1-Vol-2
CONTRACT: N00024-73-C-5506

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 1. AD-775 330.
DESCRIPTORS: *Ships, Trade off analyses, Materials, Fabrication, Hydrofoil craft, Surface effect ships, Air cushion vehicles, Aluminum alloys, Titanium alloys, Steel, Nickel alloys, Cost analysis, Costs (U)
IDENTIFIERS: Manufacturing, High performance (U)

IAC ACCESSION NUMBER: MCIC-089617
IAC DOCUMENT TYPE: MCIC -HARD COPY--
Contents: Candidate structural materials: Process ratings for materials: Cost analysis: Performance (design) analysis: Risk assessment: Shipyard capabilities:land. Annotated bibliography of selected references. (U)

IAC SUBJECT TERMS: M--(U)5083, 5086, 5456, 6061, TI-6AL-4V, TI-6AL-2CB-1TA-1MO, HY-80, HY-130, HY-180, 9NI-4CO-0.20C, 22-13-5 STAINLESS, 15-5PH, 17-4 PH, INCONEL 625, INCONEL 718, EXTRUSIONS, PLATE, HEAT TREATING, MACHINING, JOINING, SPECIFICATIONS, NONDESTRUCTIVE TESTING, COSTS, DESIGN, CORROSION, PHYSICAL PROPERTIES, TENSILE PROPERTIES, FATIGUE, SHIPS,:

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 775 281 5/9 12/1 12/2

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

A Survey of Methods of Teaching Mathematics. (U)

DESCRIPTIVE NOTE: Final rept.,
DEC 73 33P Kovach,L. D. ;
REPT. NO. NPS-53KV73121A

UNCLASSIFIED REPORT

DESCRIPTORS: *Teaching methods, *Mathematics, Costs, Teaching machines, Computer graphics, Visual aids, Tape recording, Magnetic tape, Training films (U)

A number of nontraditional methods of teaching mathematics are studied. The methods are compared by listing their advantages, disadvantages and cost. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 775 233 15/5 5/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Investigation of the Impact of Rent-Across-the-Board. (U)

JAN 74 81P
REPT. NO. LMI-74-7
CONTRACT: SD-321
PROJ: SD-321-14

UNCLASSIFIED REPORT

DESCRIPTORS: *Military facilities, *Military equipment, *Leasing, *Industrial plants, Contracts, Costs, Logistics planning, Management planning and control (U)
IDENTIFIERS: *Rent across the board, Income, Benefit cost analysis, Sales, Taxes, Insuranc (U)

Under Rent-Across-the-Board rent would be collected for government-owned facilities based upon mere possession by contractors regardless of amount of use on either government or commercial products. The impact of rent-across-the-board on product costs was found to be less than four percent by two methods. One method was a case study of a contractor who had bought an Industrial Reserve Plant. The second method was an analysis of 16 airframe manufacturing plants using overall cost and equipment ratios. The rental rates given in the Armed Services Procurement Regulation were examined and found to be too low and not comparable to commercial practice. The increase in administrative costs to adopt rent-across-the-board is analyzed. Finally, contractor comment on rent-across-the-board is presented and discussed. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 774 744 13/10 14/1

SCRIPPS INSTITUTION OF OCEANOGRAPHY LA JOLLA CALIF

Cost Considerations for Handling Data Buoys at Sea. (U)

OCT 73 52P Peloquin,R. A. :
REPT. NO. SIO-Ref-73-33
CONTRACT: N00014-69-A-0200-6043

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Sponsored in part by National Science Foundation, Washington, D.C. Report on North Pacific Experiment.
DESCRIPTORS: *Tenders(Vessels), *Buoys, *Cost analysis, Handling, Deployment, Ship personnel, Fuel consumption, Costs, Decision making (U)

Plans for moving significant numbers of moored buoys must consider the costs of the servicing ship and the buoy handling system as well as the buoy costs. The selection of the ship which is to perform the deployment and servicing should be guided by objectively derived cost considerations. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 774 740 9/2

CALIFORNIA UNIV LOS ANGELES GRADUATE SCHOOL OF MANAGEMENT

Computer Network Usage-Cost-Benefit Analysis-I. (U)

DESCRIPTIVE NOTE: Information systems working paper.
DEC 73 29P Lientz,Bennet P. :
REPT. NO. Working Paper-7-74
CONTRACT: N00014-67-A-0269-0027
PROJ: NR-049-345

UNCLASSIFIED REPORT

DESCRIPTORS: *Communications networks, *Cost effectiveness, Computer programming (U)
IDENTIFIERS: *Computer networks, Benefit cost analysis (U)

With the establishment of several computation-communication networks several questions arise as to the cost-effectiveness of a network for a particular potential user. Analysis is necessary to determine which software systems can be established and used on a network rather than the internal computer of user's organization. The timings of transitions to the network must also be found. A methodology for cost/benefit analysis is presented. For multiple systems, an extended horizon and restricted resources, an integer programming method is developed. Approximations for planning and a discussion of stability are given. A numerical example is included. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 774 653 5/1 15/3

ASSISTANT SECRETARY OF DEFENSE (SYSTEMS ANALYSIS) WASHINGTON D C

Proceedings of the Annual Department of Defense Cost Research Symposium (8th) Held at Airlie, Va., 6-8 Nov 73. (U)

NOV 73 500P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated 13 Oct 72, AD-758 144.
DESCRIPTORS: *Cost analysis, *Department of Defense, *Weapon systems, *Symposia, Data acquisition, Management planning and control, Cooperation, Joint military activities, Information systems, Specifications, Economics, Uncertainty, Personnel, Distribution, Standards, Classification, Accounting, Methodology (U)
IDENTIFIERS: Objectives (U)

The document contains proceedings of the Eighth Department of Defense (DOD) Cost Research Symposium held in 1973 at Airlie, Virginia. The Cost Research Program was established by the DOD in 1966. The objectives are to Establish cost research goals DOD-wide, to avoid research gaps or duplication, to coordinate joint cost research efforts, to disseminate the results of research, and to plan the symposia. (U)

AD- 774 653 UNCLASSIFIED

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 773 907 15/5

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Maintainability Demonstration Cost Savings Analysis. (U)

DESCRIPTIVE NOTE: Technical rept.,
NOV 73 28P Cox,Tony D. :
REPT. NO. ECOM-4167

UNCLASSIFIED REPORT

DESCRIPTORS: *Army equipment, *Maintenance, *Cost analysis, *Savings, Distribution functions, Sampling, Standard deviation, Statistical tests, Exponential functions (U)
IDENTIFIERS: Lognormal density functions, Chi square tests, Exponential density functions (U)

Where equipment can be put back into operation by a quick remove and replace operation maintenance repair times can be adequately described with an exponential distribution. A new test plan on the mean is introduced, which assumes an exponential distribution of maintenance repair times and is based upon the chi square statistic. An adoption and use of this test plan could save the government as much as $2,400 on each maintainability demonstration. At higher levels of maintenance, the distribution of repair times was predominantly log normal. However, there were some exceptions. Test Plans 1 and 2 of MIL-STD-471A can safely be used in these situations. It is also, pointed out that an optimum test plan for the log normal distribution, and other two parameter distributions would test for the mean and stadard deviation of the distribution. Therefore, a new test plan is introduced, which tests for the standard deviation of the maintenance repair time distribution. (Author) (U)

AD- 773 907 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 773 848 17/9

RCA MISSILE AND SURFACE RADAR DIV MOORESTOWN N J

Synchronous Satellite Tracker Investigation. (U)

DESCRIPTIVE NOTE: Final rept. 23 Feb 72-21 May 73.
NOV 73 253P Gross,S. D. ;Liston,J. :
CONTRACT: F30602-72-C-0225
MONITOR: RADC TR-73-277

UNCLASSIFIED REPORT

DESCRIPTORS: *Satellite tracking systems. *Radar tracking, Phased arrays, Synchronous satellites, Performance(Engineering), Costs, Optimization, Very high frequency, Ultrahigh frequency, Computer programs (U)
IDENTIFIERS: Cost comparison (U)

IAC ACCESSION NUMBER: GC-740372
IAC DOCUMENT TYPE: GACIAC -HARD COPY--
The study provides a design analysis and cost optimization on a phase array radar capable of detecting and tracking targets located at synchronous altitudes and beyond. The report describes parametric radar performance and cost models for several generic radar systems which were sized and optimized to satisfy the above requirements. The results of a parametric cost comparison among the various candidates is given and design detail and preliminary absolute cost data are presented for two system candidates selected for further study. These candidates are: (1) a phase-phase steered VHF (140 MHz) radar configuration which uses a tetrode (EIMAC 4CPX250K) power amplifier module per element in the transmit array and (2) a UHF (435 MHz) time scanned array radar (TSAR) configuration. (Author) (U)

IAC SUBJECT TERMS: G--(U)RADAR, PHASED ARRAY RADAR, RADAR SURVEILLANCE, ARTIFICIAL SATELLITES, SYNCHRONOUS SATELLITES, REMOTE SENSING, SPACECRAFT TRACKING, SPACE SURVEILLANCE(GROUND BASED), TRACKING RADAR, RADAR CROSS SECTIONS, COST ANALYSIS, ORBITS, DETECTION PROBABILITY, TARGET SIGNATURES, GROUND BASED DETECTORS, SEARCH RADAR, SLANT RANGE, FALSE ALARMS, COMPUTER MODELS, COMPUTERIZED SIMULATION;.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 773 014 13/10 15/5

FRANKEL (E G) INC CAMBRIDGE MASS

Life Cycle Cost Analysis of Merchant Ship Expeditionary Logistic Facilities. (U)

DESCRIPTIVE NOTE: Final rept. 29 Jun-15 Oct 73.
OCT 73 152P Frankel,Ernst G. ;Johnsen, Arthur W. ;Padis,Alexander A. :
REPT. NO. 1039(G)-3
CONTRACT: DAAK02-72-C-0021

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-741 221.
DESCRIPTORS: *Merchant vessels. *Logistic support, Cost analysis, Logistics, Logistics planning, Cranes, Barges, Unloading, Cargo ships (U)

The report develops and delineates the ten-year life cycle cost of six merchant ship expeditionary logistic facilities (ELFs), selected by the Naval Facilities Engineering Command, in the format of U. S. Army Regulation No. 37-18. The merchant ships selected include two barge carriers, three bulk carriers and one dry cargo carrier. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 772 078 5/1 15/5

LOGISTICS MANAGEMENT INST WASHINGTON D C

Guide for Monitoring Contractors Indirect Costs. (U)

DEC 73 122P
REPT. NO. LMI-72-17
CONTRACT: SD-321
PROJ: SD-321-173

UNCLASSIFIED REPORT

DESCRIPTORS: *Military budgets, *Contracts, *Cost analysis, Logistics support, Management planning and control, Forecasting (U)
IDENTIFIERS: *Indirect costs (U)

Pursuant to Task Order 72-17, the report is submitted in the form of a proposed guide for use by government monitors to obtain better control of contractors' indirect costs in government contracts. It contains sections on budget control and reporting. Guidance is provided for evaluating the reasonableness of budgeted costs through comparison and engineering techniques. The guide is especially applicable to the monitoring of costs at plants which perform major government contracts. (Modified author abstract) (U)

AD- 772 078 UNCLASSIFIED PAGE 404

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 771 989 5/3 15/5

GENERAL RESEARCH CORP MCLEAN VA OPERATIONS ANALYSIS DIV

Economic Analysis Handbook Theory and Application. Volume IV. Case Studies. (U)

DESCRIPTIVE NOTE: Contract rept. (Final). Sep 72-Aug 73.
NOV 73 168P Stament.Alfred D. ;Bennett. Walter H. ;
REPT. NO. OAD-CR-22-Vol-4
CONTRACT: DAHC19-69-C-0017

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 3. AD-771 986.
DESCRIPTORS: *Army, *Economics, Management planning and control, Logistics support, Cost analysis, Maintenance, Data processing, Sensitivity (U)
IDENTIFIERS: *Economic analysis, Benefit cost analysis, Sensitivity analysis (U)

The four-volume handbook is designed as a practical guide for preparers and reviewers of Army economic analysis studies. The goal is to facilitate improved analyses which will lead to better decisions and use of Army resources. Economic analysis in the context of this handbook is concerned with the costs and benefits of alternative ways of accomplishing a particular task. The handbook is intended for analysis of investment projects yet to be finally approved or disapproved. It is not intended to provide insights on the best way to justify prior decisions on investment projects. Volume four provides two case studies of actual Army economic analyses. Each case study describes and evaluates the pertinent analyses and presents a catalog of lessons learned. The case studies helped shape the content and extent of attention given to various subjects in Vols one to three and provided illustrative examples. (Modified author abstract) (U)

AD- 771 989 UNCLASSIFIED ZOMO7

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 771 986 5/3 15/5

GENERAL RESEARCH CORP MCLEAN VA OPERATIONS ANALYSIS DIV

Economic Analysis Handbook Theory and Application. Volume III. Guide for Reviewers of Economic Analysis. (U)

DESCRIPTIVE NOTE: Contract rept. (Final), Sep 72-Aug 73,
NOV 73 49P Bennett,Walter H. ;Stament, Alfred D. ;
REPT. NO. OAD-CR-22-Vol-3
CONTRACT: DAHC19-69-C-0017

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also Volume 2, AD-771 986 and Volume 4, AD-771 989.
DESCRIPTORS: *Army, *Economics, Management planning and control, Logistics support, Decision making, Cost analysis (U)
IDENTIFIERS: *Economic analysis, Benefit Cost analysis (U)

The four-volume handbook is designed as a practical guide for preparers and reviewers of Army economic analysis studies. The goal is to facilitate improved analyses which will lead to better decisions and use of Army resources. Economic analysis in the context of this handbook is concerned with the costs and benefits of alternative ways of accomplishing a particular task. The handbook is intended for analysis of investment projects yet to be finally approved or disapproved. It is not intended to provide insights on the best way to justify prior decisions on investment projects. Volume three is written for reviewers of economic analyses. It is presented in terms of a series of key questions addressing such matters as assumptions, methodology, formulation of alternatives, and presentation of results. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 771 957 13/9 13/8

SUMMA CORP CULVER CITY CALIF HUGHES HELICOPTERS DIV

Development of a Low-Cost Composite Die Using High-Energy-Rate Forming (HERF). (U)

DESCRIPTIVE NOTE: Final rept.,
NOV 73 53P Dingle,Gordon K. ;Leach, Joseph F., Jr;
REPT. NO. H-73-76
CONTRACT: DAAG46-73-C-0026
MONITOR: AMMRC CTR-73-43

UNCLASSIFIED REPORT

DESCRIPTORS: *High energy rate forming, *Dies, Titanium alloys, Stainless steel, Helicopters, Fabrication, Cost, Reduction (U)
IDENTIFIERS: Titanium alloy 6Al 4V, Steel 321 (U)

A program was conducted to design, fabricate, and test/evaluate a low-cost composite die system for high-energy-rate forming (HERF) of titanium and high-temperature alloy parts commonly used on helicopters. The composite die design was evaluated by conducting forming operations on seven pieces of 321 stainless steel and eight pieces of 6Al-4V titanium alloy. The composite die met the design objectives of low cost (half that of conventional dies), short lead time (at least half that of conventional dies), and medium life (500 cycles). (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 771 793 9/2

INFORMATICS INC ROCKVILLE MD

Intelligence System Designer's Memory Evaluation Program. (U)

DESCRIPTIVE NOTE: Final rept. Jun 72-Aug 73,
NOV 73 131P Savas,Mary Ann ;Corley, Steven ;
REPT. NO. TR-73-1561-1
CONTRACT: F30602-72-C-0360
MONITOR: RADC TR-73-328

UNCLASSIFIED REPORT

DESCRIPTORS: *Memory devices, *Cost effectiveness, *Computerized simulation, *Computer programming, Instruction manuals, Performance(Engineering), FORTRAN (U)
IDENTIFIERS: Performance evaluation, HIS 635 computers, GESIM programming language (U)

The selection of storage equipment is an integral part of intelligence systems design. Intelligence Data Handling Systems are characterized by large files whose elements are constantly accessed, updated, and/or deleted by a number of processes and procedures. Too often, the minimum cost of a system is not attained due to the difficulties of comparing the cost and/or technical performance of various storage devices. The Memory Evaluation Program has been designed to assist in the determination of the best or, in some cases, a feasible solution to meet storage requirements. It is a simulation program based upon mathematically-sound principles that closely parallel the procedures used by large-scale computers to perform input/output operations with storage devices. Therefore, it is possible to study more alternative solutions and to have more performance data available with which to perform comparative analyses. Algorithms for evaluating magnetic tape devices, and direct access storage devices, have been included in the simulation programs. (Modified author abstract) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 771 439 9/2 17/2

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING

Computer Network Usage--Cost/Benefit Analysis - I. (U)

DESCRIPTIVE NOTE: Technical rept.,
DEC 73 29P Lientz,Bennet P. ;
REPT. NO. TR-5
CONTRACT: N00014-67-A-0269-0027

UNCLASSIFIED REPORT

Availability: Available in microfiche only.
DESCRIPTORS: *Data transmission systems, *Communications networks, Economic models, Cost effectiveness (U)
IDENTIFIERS: *Computer networks, *Benefit cost analysis (U)

With the establishment of several computation-communication networks several questions arise as to the cost-effectiveness of a network for a particular user or potential user. Analysis is necessary to determine which software systems can be established and used on a network rather than on an internal machine of the user's organization. The timings of the transitions to the network must also be found. A methodology for cost-benefit analysis is presented. For multiple systems, an extended horizon, and restricted hardware resources an integer programming method is developed. Approximations for planning and stability are given. A numerical example is included. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 771 432 12/2

STANFORD UNIV CALIF DEPT OF STATISTICS

Denumerable State Markov Decision Processes with Unbounded Costs. (U)

DESCRIPTIVE NOTE: Technical rept.,
NOV 73 62P Reed,Frank C. ;
REPT. NO. TR-157, TR-22
CONTRACT: N00014-67-A-0112-0052, NSF-GK-35491
PROJ: NR-042-002

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Sponsored in part by Contract N00014-67-A-0112-0058, TR-42.
DESCRIPTORS: *Decision theory, *Stochastic processes, *Linear programming, Probability density functions, Costs, Random variables, Theorems (U)
IDENTIFIERS: *Markov decision processes, Markov processes, SemiMarkov processes (U)

The report establishes sufficient conditions for both the existence of stationary optimal policies and the optimality of stationary policies in Markov decision processes with unbounded costs. The optimization criteria considered are minimum expected discounted cost over an infinite horizon and minimum expected average cost per unit time. Sufficient conditions that one may frequently establish in applications are given for the existence of a stationary optimal policy for both optimization criteria. It is also shown that for both optimization criteria optimal stationary policies are associated with the solution of the usual functional equations that arise in Markov decision processes with bounded costs. With unbounded costs, however, one must place additional constraints on these solutions to assure that the implied stationary policy is optimal. (Author) (U)

AD- 771 432 UNCLASSIFIED PAGE 407

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 771 402 17/2 20/6 1/3

NAVAL ELECTRONICS LAB CENTER SAN DIEGO CALIF

Fiber- and Integrated-Optic Communication Technology. (U)

DESCRIPTIVE NOTE: Research and development rept. 1 Oct 72-3: Mar 73.
AUG 73 41P Martin,W. E. ;Albares,D. J. ;
REPT. NO. NELC-TR-1891
CONTRACT: ARPA Order-2158

UNCLASSIFIED REPORT

DESCRIPTORS: *Optical communications, Fiber optics, Integrated circuits, Optical equipment, Waveguides, Infrared communications, Military applications, Feasibility studies, Cost effectiveness, Avionics (U)
IDENTIFIERS: Optical waveguides, Benefit cost analysis (U)

Applications assessment studies and a preliminary cost-benefit analysis are performed which indicate areas of definite performance gains and cost savings from use of fiber-optic and integrated-optical-circuit (IOC) technologies, particularly in avionics systems. Progress in fiber optics, which has made possible the use of conventional off-the-shelf components in proposed systems with immediate applications, is shown. Progress is also shown in IOC technology, particularly in modulators for use in proposed high-bandwidth systems. Several unique IOC devices are investigated which promise to have the capability to use extremely-wide-bandwidth optical waveguides. (Author) (U)

AD- 771 402 UNCLASSIFIED Z0MO7

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 771 354 15/5

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Navy Systemwide Stock Rationing. (U)

DEC 73 28P Biggins,J. A. ;Rorke,M. J. ;

REPT. NO. 105
PROJ: FMSO-971174

UNCLASSIFIED REPORT

DESCRIPTORS: *Naval logistics, *Inventory control, Cost analysis, Lead time (U)
IDENTIFIERS: Benefit cost analysis (U)

The purpose of the study was to develop a Navy stock rationing policy for wholesale material. The study covers the following areas: (1) an analysis of existing Navy stock rationing practices; and (2) an analysis of a rationing policy with cost-benefit analysis. The study recommends, given certain conditions, a rationing policy based upon control levels. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 770 927 13/3 15/5 15/7

ARMY CONSTRUCTION ENGINEERING RESEARCH LAB CHAMPAIGN ILL

Guidance for Selection of Equipment Fleet. (U)

DESCRIPTIVE NOTE: Technical rept.,
OCT 73 38P Rood,Omar E. , Jr;
REPT. NO. CERL-TR-P-18
PROJ: DA-4-A-664717-D-895

UNCLASSIFIED REPORT

DESCRIPTORS: *Army operations, *Construction equipment, *Costs, Earth handling equipment, Road building equipment, Decision making, Production control, Mathematical models (U)
IDENTIFIERS: Cost estimating relationships (U)

The report presents a guide for equipment fleet selection that will enable military engineers to accomplish their Theater of Operations construction projects at the lowest cost to the taxpayer. The equipment selection guide is presented in card format, which, after review and field-testing by the Engineer School, should be distributed to field engineers. The report also presents the consideration, methodology, and models used in the development of this equipment selection card. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 770 839 15/5 5/1

LOGISTICS MANAGEMENT INST WASHINGTON D C

Development of Cost Parameters and Inventory Level Decisions at DSUs (Direct Support Units), (U)

NOV 73 99P Kaiser,Robert D. ;Boisseau, H. James ;

REPT. NO. LMI-73-8
CONTRACT: SD-321
PROJ: SD-271-182

UNCLASSIFIED REPORT

DESCRIPTORS: *Army equipment, *Inventory control, *Cost analysis, Mathematical models, Inventory, Logistics, Costs, Savings, Decision making (U)
IDENTIFIERS: *Federal stock numbers, CASPAR(Condensed Army Stock Plan Analyzer), Condensed army stock plan analyzer (U)

The Condensed Army Stock Plan Analyzer (CASPAR) Model, developed earlier by LMI, was revised and modified, to permit economic stockage decisions at Army Direct Support Units (DSUs) using a stockout cost imputed from customer specifications of minimum required service levels. The report outlines necessary changes to permit use of CASPAR, including cost-to-hold and cost-to-order. Evaluation of data resources revealed that available DSU data can be used to estimate values of the independent variables, for subsequent use in solution of the multiple regression model. (Author) (U)

AD- 770 839 UNCLASSIFIED

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 770 746 5/9

CANADIAN COMMERCIAL CORP OTTAWA (ONTARIO)

A Conceptual Design for the Cost Evaluation of Alternative Educational Systems in Managing the Air Force Academy and Air Force ROTC. (U)

DESCRIPTIVE NOTE: Final rept.,
SEP 73 189P Judy,Richard W. ;Levine, Jack B. ;Russel,R. Stephen ;Van Wijk,Alfons ;Wolfson,William G. ;
CONTRACT: F41609-71-C-0037
PROJ: AF-1125
TASK: 112503
MONITOR: AFHRL TR-72-2

UNCLASSIFIED REPORT

DESCRIPTORS: *Air Force, *Education, *Instructional materials, Models, Simulation, Costs, Assessment, Universities, Budgets, Planning, Canada (U)
IDENTIFIERS: *Air Force Academy, *Air Force Reserve Officers Training Corps (U)

Designs of two models customized to the management needs of the U.S. Air Force Academy and the Air Force (ROTC) Reserve Officers Training Corps are detailed. The model, upon implementation, would permit administrators to obtain answers to various 'what if....' management questions. The design of these models was based on a situation analysis of the U.S. Air Force Academy and the Air Force ROTC and a state-of-the-art analysis of existing educational cost models. No solution was attempted for the difficult problem of obtaining good measures of the effectiveness of educational systems: these are resource requirements prediction models. This effort has produced customer participation and acceptance; implementation is for the future. (Modified author abstract) (U)

AD- 770 746 UNCLASSIFIED ZOMO7

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 770 556 5/10

MICHIGAN UNIV ANN ARBOR ENGINEERING PSYCHOLOGY LAB

Costs and Payoffs in Perceptural Research. (U)

DESCRIPTIVE NOTE: Technical rept.,
OCT 73 60P Winterfeldt Detlof V. ; Edwards,Ward ;
REPT. NO. 011313-T
CONTRACT: N00014-67-A-0181-0049, ARPA Order-2105
PROJ: NR-197-021

UNCLASSIFIED REPORT

DESCRIPTORS: *Perception(Psychology), Motivation, Costs, Response, Mathematical models (U)
IDENTIFIERS: Payoffs (U)

A persistent problem in psychological research that reaches conclusions about inaccessible processes or experiences inside a subject's head is to validate those conclusions--that is, to exhibit persuasive reasons to believe that emitted behavior in some sense faithfully reports inaccessible processes. In the mid-1950s, perceptual researchers widely adopted an approach that might be called validation by cupidity. If the experimenter is willing to define a correct response, he can reward the subject for correct responses and not for wrong ones; however, costs and payoffs are rather feeble means of instructing a subject what to do, or of ensuring that he does it. (Modified author abstract) (U)

AD- 769 905 10/2

UNION CARBIDE CORP CLEVELAND OHIO CONSUMER PRODUCTS DIV

Low Cost Oxygen Electrodes. (U)

DESCRIPTIVE NOTE: Interim rept. no. 4 (Final), 31 Jan-11 May 73.
JUL 73 106P Kordesch,K. V. ;Scarr,R. F. ;
CONTRACT: DAAK02-71-C-0297
PROJ: DA-1-T-661102-A-34-A
TASK: 1-T-661102-A-34-A-03

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also report dated Mar 73, AD-766 773.
DESCRIPTORS: (*Electrodes, *Fuel cells), (*Oxygen, Electrodes), (*Air, Electrodes), Carbon, Platinum, Teflon, Catalysts, Supports, Phosphoric acids, Stability, Manufacturing methods, Reliability, Fabrication, Costs (U)
IDENTIFIERS: *Hydrogen air fuel cells, Performance evaluation (U)

The purpose of this contract was the development of a low cost air electrode for medium temperature (130C) immobilized phosphoric acid (matrix) fuel cell. Thin carbon electrodes catalized with 1 to 2 mg Platinum per sq. cm performed on the average between 0.55 and 0.60 volt (terminal voltage) at 100 mA/sq. cm. X-ray fluorescence was used to determine the distribution and the amount of catalyst actually deposited. Broadening of the X-ray diffraction lines due to scattered radiation indicated a Pt-crystallite size ranging from 70 to 120 A. Long-term testing of these electrodes has shown that the chemical and mechanical stability of the catalyst and structural material are good. i.e., operation for over 1000 hours above 0.6 volt was achieved. The degradation rate beyond 500 hours was extremely low (10 mV per 1000 hours). Carbon anodes with one mg Pt/sq. cm showed a remarkable resistance to Co-poisoning. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 769 801 15/5 12/2 5/1

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

Minimizing the Cost of Projects in Naval Shipyards. (U)

DESCRIPTIVE NOTE: Doctoral thesis,
SEP 73 177P Shackelton,Norman John , Jr;

UNCLASSIFIED REPORT

DESCRIPTORS: (*Shipyards, Cost effectiveness), (*Job, *Scheduling), Management planning and control, Manpower, Costs, Nonlinear programming, Linear programming, Dynamic programming, Quadratic programming, Allocations, Network flows, Theses, Computer programs, Navy (U)
IDENTIFIERS: Integer programming, Resource allocation (U)

The thesis is concerned with a problem of scheduling that arises in naval shipyards as well as in many other organizations. The problem considered is that of minimizing the total cost of a project with limited manpower available from the various shops and where the number of mandays to accomplish each activity in the project is specified. Total project cost consists of normal direct labor cost, overtime cost, and a penalty for exceeding some specified target date. It is shown that this problem includes several other, more common scheduling problems such as job-shop scheduling. The relationship among the various problems is described including the use of existing solution procedures to solve special cases of the shipyard problem. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 768 983 8/13 8/7

OXFORD UNIV (ENGLAND) DEPT OF AGRICULTURAL SCIENCE

The Cost-Effectiveness of Terrain Evaluation. Volume 1. Outline of Project: Field Work in 1971. (U)

DESCRIPTIVE NOTE: Final technical rept.,
SEP 73 131P Beckett,P. H. T. :
CONTRACT: DAJA37-71-C-0697

UNCLASSIFIED REPORT

DESCRIPTORS: (*SOILS, GEOLOGICAL SURVEY), TERRAIN, MAPPING, COST EFFECTIVENESS, GREAT BRITAIN (U)
IDENTIFIERS: *SOIL SURVEYS, SOIL CLASSIFICATION (U)

The aim of this project is to analyse the influence of all relevant choices between procedures for sampling, classifying, and mapping soils or soil properties, and for evaluating and presenting soils information, on the truth and reliability of the result. The results are expected also to be applicable to maps, etc., of the other terrain properties. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 768 826 15/5 5/1

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA

The Change Process in Weapons System Acquisition. (U)

DESCRIPTIVE NOTE: Final rept.,
AUG 73 93P Douglas,William J. ;
CONTRACT: DAHC15-73-C-0200

UNCLASSIFIED REPORT

Availability: Available in microfiche only. x
SUPPLEMENTARY NOTE: Prepared in cooperation with Ketron, Inc., Wayne, PA. Rept. no. KTR-703-2.
DESCRIPTORS: (*GOVERNMENT PROCUREMENT, WEAPON SYSTEMS), COSTS, CONFIGURATION, MILITARY REQUIREMENTS, GRAPHICS, DESIGN, MANAGEMENT PLANNING AND CONTROL (U)
IDENTIFIERS: *BENEFIT COST ANALYSIS, LOGISTICS MANAGEMENT (U)

The change process in weapons system is evaluated with regard to cost growth, time, and change volume. Configuration management procedures are reviewed and the volume of ECP's is related to some specific weapons systems and military agencies. The causes of change are examined and recommendations are made for improving the process. (Author) (U)

AD- 768 826

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 768 787 15/5

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Guidelines for Design to Unit Production Cost (DTUPC). (U)

DESCRIPTIVE NOTE: Technical rept.,
OCT 73 19P Trigg,Clifton T. :
REPT. NO. ECOM-4162

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMY PROCUREMENT, MILITARY REQUIREMENTS), DESIGN, COSTS, PRODUCTION (U)
IDENTIFIERS: DESIGN TO COST ANALYSIS (U)

The introduction of DOD Directive 5000.1, AR 1000-1 and the new material acquisition guidelines has been followed by numerous directives, policy statements, and similar papers that philosophically address the issue of Design to Unit Production Cost (DTUPC). The guidance on DTUPC has been evolutionary in character, and therefore, the report represents a synopsis of the more salient points of DTUPC implementation. As such it describes the DTUPC, explores the criteria of when it should be applied, suggests methods for development of the DTUPC, and provides guidance for the establishment of tracking procedures. The report is of an abstract nature, to be used as a ready reference. It is not meant to be definitive to the point of addressing the DTUPC, as would be the case in a handbook or procedural document. As the DTUPC philosophy continues to evolve and experience is gained, more detailed procedural documents will be published. (Author) (U)

AD- 768 787

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 768 731 15/5 5/1

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Application of the Penalty Cost Model to Centrally Managed Items, (U)

OCT 73 35P Crum,G. S. ;

REPT. NO. 102
PROJ: FMSO-971164

UNCLASSIFIED REPORT

DESCRIPTORS: (*NAVAL EQUIPMENT, *INVENTORY CONTROL), COSTS, MATHEMATICAL MODELS, NAVAL PROCUREMENT, SENSITIVITY, DECISION THEORY (U)
IDENTIFIERS: COMPUTERIZED SIMULATION (U)

The report compares and evaluates the current UICP (Uniform Inventory Control Point) physical inventory selection method with PCM (Penalty Cost Model). The report also evaluates the sensitivity of parameter changes in the UICP physical inventory program. Analysis of ICP inventories demonstrated that the number of inventories can be drastically reduced without adversely affecting requisition effectiveness while also increasing the net worth of taking the inventory. Thus, inventorying resources are used in a more cost effective manner. (Modified author abstract) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 768 363 14/4

POLYTECHNIC INST OF BROOKLYN N Y DEPT OF ELECTRICAL ENGINEERING AND ELECTROPHYSICS

Redundant Spares Allocation to Reduce Reliability Costs. (U)

SEP 73 43P Sinkar,Sharad G. ;Shaw, Leonard ;

REPT. NO. EER-104
CONTRACT: N00014-67-A-0438-0012
PROJ: NR-042-301

UNCLASSIFIED REPORT

DESCRIPTORS: (*RELIABILITY(ELECTRONICS), OPTIMIZATION), (*REDUNDANT COMPONENTS, SPARE PARTS), FAILURE(ELECTRONICS), COSTS, PROBABILITY, REPLACEMENT THEORY, MODULES(ELECTRONICS), COMPUTER PROGRAMS, INTEGRATED CIRCUITS, INVENTORY CONTROL (U)
IDENTIFIERS: ALLOCATION MODELS, FAILURE RATE FUNCTIONS (U)

Due to rapid developments in technology, provision of adequate number of spares at the time of acquisition of equipment has become a significant problem. Increased complexities of modern electronic equipments have resulted in modular designs. In the event of failure of one such a module, it is readily removed and replaced by a new one from the inventory. The problem considered here is the optimal selection of the inventory of spares for a system build from two kinds of modules, the larger of which can be connected so it performs the role of the smaller one. The optimal inventory is the least costly one which achieves a specified probability that the spares will not be exhausted over the design lifetime. For some costs and failure rates it is most economical to use the larger module for both roles because of the resulting increase in flexibility in the deployment of a single type of spare module. The problem has been approached by analytical as well as simulation methods. (Author) (U)

AD- 768 292 10/2

NAVAL CIVIL ENGINEERING LAB PORT HUENEME CALIF

Earth Heat Sinks for Underground Power Sources. (U)

DESCRIPTIVE NOTE: Technical note.
AUG 73 83P Garg,S. C. :
REPT. NO. NCEL-TN-1306
PROJ: ZR000-01
TASK: 2R000-01-139

UNCLASSIFIED REPORT

DESCRIPTORS: (*POWER PLANTS(ESTABLISHMENTS), *HEAT SINKS), UNDERGROUND STRUCTURES, SOILS, COST EFFECTIVENESS, COMPUTER PROGRAMS, CONDUCTION(HEAT TRANSFER), CIVIL DEFENSE (U)

The cost effectiveness of earth heat sinks for underground power plants operating in a closed cycle over limited durations in time was determined through a transient heat conduction analysis. A comparison of heat absorption capacity of earth heat sinks per cubic foot volume with the capacities of stored water and stored ice heat sinks was carried out for a specific set of operating conditions. The comparison has shown that the cost of an earth heat sink using select backfill is approximately 6 and 14% of the cost of a stored ice heat sink, and approximately 10 and 23% of the cost of a stored water heat sink at sites with full and zero water tables, respectively. The overall volume of the earth heat sink was estimated to be 0.8 and 1.5 times the volumes of stored water and stored ice heat sinks, respectively. It is recommended that earth should be considered as an alternative waste heat sink for limited duration, closed cycle underground power systems because of its simplicity and lower cost. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 768 133 1/3 5/3

ARMY MATERIEL COMMAND TEXARKANA TEX INTERN TRAINING CENTER

Minimum Life Cycle Costing for a V/STOL Transport. (U)

73 108P Smith,Thomas W. :
REPT. NO. USAMC-ITC-1-73-21

UNCLASSIFIED REPORT

DESCRIPTORS: (*SHORT TAKEOFF AIRCRAFT, COSTS), VERTICAL TAKEOFF AIRCRAFT, AIRFRAMES, SPARE PARTS, MAINTAINABILITY, LIFE EXPECTANCY, PROCUREMENT, COMPUTER PROGRAMS (U)
IDENTIFIERS: COST ESTIMATING RELATIONSHIPS, COST ESTIMATES, *LIFE CYCLE COSTING (U)

The report proposes a new methodology for life cycle costing. In particular, a Vertical/Short Take-off and Landing (V/STOL) transport aircraft is considered. The costs included are those of research and development, production, maintenance, and operation. The minimum cost is found by the minimization of a function of three variables: maximum speed at best altitude, gross take-off weight, and maximum thrust per engine. Several methods of minimization were investigated, including geometric programming, Sequential Unconstrained Minimization Technique (SUMT), and the pattern search technique. The latter method was used with success and numerous computer runs were executed. The impact of the variation of many input parameters is shown in the results. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 767 698 6/5

NAVAL POSTGRADUATE SCHOOL MONTEREY CALIF

On the Existence of Relative Moral Hazard. (U)

DESCRIPTIVE NOTE: Technical rept.,
JUL 73 21P Whipple,David ;Brill,Edward ;Walsh,David ;
REPT. NO. NPS-55WP73071A

UNCLASSIFIED REPORT

DESCRIPTORS: (*MEDICINE, COSTS) (U)
IDENTIFIERS: *MEDICAL SERVICES, HEALTH INSURANCE (U)

The paper points out that for purposes of estimating the total cost of various health care bills providing comprehensive prepaid care the relevant concept is not 'moral hazard' as usually defined, but rather relative moral hazard, the tendency for an individual to increase utilization over what they might have done under a fee-for-service plus coinsurance system. Although the empirical results are tentative and preliminary, they seem to indicate that great per capita jumps in the consumption of free inpatient care may well have been exaggerated. (Author) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 767 090 15/5 14/1

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

Analysis of Criteria for Changing Standard Prices. (U)

AUG 73 23P Neely,S. D. ;Searer,T. E. ;
REPT. NO. 73
PROJ: FMSO-971157

UNCLASSIFIED REPORT

DESCRIPTORS: (*INVENTORY ANALYSIS, *COSTS), (*NAVAL EQUIPMENT, *NAVY BUDGETS), NAVAL PROCUREMENT, LOGISTICS, MAINTENANCE, MANAGEMENT PLANNING AND CONTROL, ECONOMICS, IMPACT (U)
IDENTIFIERS: LOGISTICS MANAGEMENT, MANAGEMENT ANALYSIS, BENEFIT COST ANALYSIS, PRICES, COST COMPARISON, ECONOMIC ANALYSIS (U)

Under current procedures, a Navy ICP (Inventory Control Point) notifies its customers of changes in repair part prices whenever the difference between the new standard price and the catalog price has an impact of at least $50 on the value of annual demand. Upon completing an inspection of the Navy Electronics Supply Office, the Naval Supply Systems Command Inspector General recently recommended the policy be changed so that a new price is published whenever the difference between the new and published price is 10% or more. Certain costs are incurred each time a notification of a price change is given. A study was performed to determine the most economical policy for making price changes. The current policy was tested varying the $50 impact value from $.01 to $160. The proposed policy was tested varying the 10% change value from 1/5% to 12%. The results indicated that the current policy requiring a $50 impact on the value of annual demand is the most economical. (Modified author abstract) (U)

AD- 767 071 9/2

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING

Cost Tradeoffs Between Local and Remote Computing. (U)

DESCRIPTIVE NOTE: Technical rept..
AUG 73 19P Lientz,Bennet P. ;
REPT. NO. TR-4
CONTRACT: N00014-67-A-0269-0027

UNCLASSIFIED REPORT

DESCRIPTORS: (*DATA PROCESSING, COST EFFECTIVENESS), NETWORKS, TRAFFIC, DESIGN, OPTIMIZATION, STATISTICAL ANALYSIS, REMOTE CONTROL (U)
IDENTIFIERS: MANAGEMENT INFORMATION SYSTEMS, BENEFIT COST ANALYSIS, *COMPUTERS, *NETWORKS, DATA BASES (U)

A major problem in communication networks analysis is to determine the degree of centralization of computer power that is desirable from both an operational and cost/benefit point of view. An example of this problem occurs in a manufacturing complex wherein decisions must be made on the distribution of data, process power, and redundancy. Because of the many parameters involving hardware, system software, and communications, a purely analytical approach is often impractical. The method here is to employ an analytical simulation model to obtain measures of cost, throughout, and response time. After the mode itself is examined, focus is placed on several experiments which reveal the superiority of semi-centralized configurations. Application to logistic and manufacturing systems are explored along with the development of a network link construction method. The above mentioned experiments reveal the dependence of the analysis on the characteristics of the actual or anticipated message traffic. For a manufacturing system, a method is developed for isolating parts of a computer network as a specific degree of importance to the network functioning and failing. This is examined in the context of the message traffic rather than graph theoretic methods. (U)

AD- 767 028 1/2

NAVAL AEROSPACE MEDICAL RESEARCH LAB PENSACOLA FLA

Orientation-Error Accidents in Regular Army Aircraft During Fiscal Year 1970: Relative Incidence and Cost. (U)

DESCRIPTIVE NOTE: Joint rept..
AUG 73 46P Niven,Norma I. ;Hixson,W. Carroll ;Spezia,Emil ;
REPT. NO. NAMRL-1188
PROJ: MF51.524
TASK: M51.524.005
MONITOR: USAARL 74-3

UNCLASSIFIED REPORT

DESCRIPTORS: (*AVIATION ACCIDENTS, ARMY AIRCRAFT), (*VERTIGO, PILOTS), ERRORS, PERFORMANCE(HUMAN), COSTS, CASUALTIES, DAMAGE ASSESSMENT, HELICOPTERS, ARMY, NAVY (U)
IDENTIFIERS: *ORIENTATION ERROR ACCIDENTS (U)

The report is the fourth in a series of dealing with the pilot disorientation/vertigo accident problem in Army fixed wing and rotary wing flight operations. Incidence and cost data presented for fiscal year 1970 include a total of 81 major and minor orientation-error accidents (25 of which were fatal), resulting in 80 fatalities, 104 nonfatal injuries, and an over-all aircraft damage cost of $19,355,689. The contribution of rotary wing accidents to this total was 75 accidents (24 of which were fatal), resulting in 79 fatalities, 98 nonfatal injuries, and over-all aircraft damage cost of $17,060,490. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD- 766 757 10/2

PRATT AND WHITNEY AIRCRAFT EAST HARTFORD CONN

Air Mobility Fuel Cell Study. (U)

DESCRIPTIVE NOTE: Technical rept. 9 May 72-9 Jan 73,
JUL 73 189P Arnold,Jeffrey H. ;
REPT. NO. PWA-4635
CONTRACT: F29601-72-C-0083
PROJ: AF-683M
MONITOR: AFWL TR-73-26

UNCLASSIFIED REPORT

DESCRIPTORS: (*FUEL CELLS, *AUXILIARY POWER PLANTS), (*ARMY EQUIPMENT, FUEL CELLS), COSTS, MILITARY REQUIREMENTS, FUEL OIL, CATALYSTS, DESIGN, GAS TURBINES, MOBILITY, COMPUTER PROGRAMS (U)
IDENTIFIERS: LIFE TESTS, COST ESTIMATES, DESULFURIZATION (U)

An analytical and test program was conducted to evaluate the fuel cell power concept for the Bare Base mission which was selected as an example of an air mobility application. A life cycle cost model was developed and the life cycle costs of candidate fuel cell power systems were compared to the present Bare Base centralized power system. A study and test program was conducted to determine the feasibility of desulfurizing military JP-4 fuel and a powerplant test program was also conducted to evaluate operation on JP-4 fuel to meet typical air mobility loads. Study results verified that dispersed fuel cell power systems offer potential operational advantages in system installation, operation, and maintenance and are economically competitive with existing centralized power systems. The desulfurizer test program demonstrated the feasibility of desulfurizing JP-4 fuel. Powerplant tests demonstrated the capability to operate on JP-4 fuel and the ability to provide power compatible with air mobility loads. A comprehensive field experiment was planned as a logical next step to confirm the economic and operational conclusions of the study and provided detailed design information for an air mobility fuel cell system. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MD7

AD- 766 624 15/5 5/3

STATE UNIV OF NEW YORK BUFFALO SCHOOL OF MANAGEMENT

An Approach to the Allocation of Common Costs of Multi-Mission Systems. (U)

73 18P Crow,Robert Thomas :

UNCLASSIFIED REPORT

Availability: Pub. in Naval Research Logistics Quarterly, v20 n3 p431-447 Sep 73.
DESCRIPTORS: (*NAVAL OPERATIONS, LOGISTICS), (*ECONOMICS, COSTS), PROCUREMENT, MATHEMATICAL MODELS (U)
IDENTIFIERS: MARGINAL COSTS, ALLOCATION MODELS, PRICES, RESOURCE ALLOCATION, *COST ANALYSIS (U)

Many Naval systems, as well as other military and civilian systems, generate multiple missions. An outstanding problem in cost analysis is how to allocate the costs of such missions so that their true costs can be determined and resource allocation optimized. The paper presents a simple approach to handling this problem for single systems. The approach is based on the theory of peak-load pricing as developed by Marcel Boiteux. The basic principle is that the long-run marginal cost of a mission must be equal to its price. The implication of this is that if missions can cover their own marginal costs, they should also be allocated some of the marginal common costs. The proportion of costs to be allocated is shown to a function of not only the mission-specific marginal costs and the common marginal costs, but also of the mission price. Thus, it is shown that measures of effectiveness must be developed for rational cost allocation. The measurement of effectiveness has long been an intractable problem, however. Therefore, several possible means of getting around this problem are presented in the development of the concept of relative mission prices. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 766 376 15/5 14/1

CENTER FOR NAVAL ANALYSES ARLINGTON VA

A Critique of Cost Analysis. (U)

JUL 73 15P Augusta,Joseph H. ;
REPT. NO. CNA-Professional Paper-110

UNCLASSIFIED REPORT

DESCRIPTORS: (*GOVERNMENT PROCUREMENT, *COSTS), DEPARTMENT OF DEFENSE, COST EFFECTIVENESS, DECISION MAKING, WEAPON SYSTEMS (U)
IDENTIFIERS: LOGISTICS MANAGEMENT, RESOURCE ALLOCATION, FISCAL POLICIES, *COST ANALYSIS (U)

Cost analysis as the term is used today in DoD. covers a broad range of activities from resource allocation for an entire service to detailed estimates of procurement and operating costs for individual weapon systems. These different estimates are used for a wide range of purposes; from helping decision-makers decide upon broad choices of strategies, to justification of new purchases. The methods employed range from sophisticated statistical techniques to 'back-of-the-envelope' calculations. All these things are properly included in cost analysis. However, the author describes some of the broader uses of cost analysis and to stay away from the specifics of individual weapon systems costing. The author concentrates on two broad areas of concern to today's cost analysts: one is procurement costing, the other is force level costing. Both these types of cost analyses have been strengthened in recent years; the latter because of the change in the way OSD manages the planning system - the introduction of Fiscal Guidance - and the former because of the change in the procurement system - the DSARC and the independent review system - plus a change in the attitudes of the people of the United States. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0MO7

AD- 766 342 21/8.2 13/8

BATTELLE COLUMBUS LABS OHIO

Press Brake-Roll and Weld Fabrication of Prototype Large-Diameter Missile Motor Cases: Production Cost Estimates. (U)

SEP 73 14P Mueller,R. A. :
CONTRACT: DAAH01-72-C-0821

UNCLASSIFIED REPORT

DESCRIPTORS: (*PRODUCTION CONTROL, COSTS), (*ROCKET ENGINE CASES, MANUFACTURING), (*SOLID PROPELLANT ROCKET ENGINES, ROCKET ENGINE CASES), MARAGING STEELS, MARTENSITE, METAL SPINNING, METAL FORMING BRAKES, PRESSES(MACHINERY), MECHANICAL WORKING, WELDING (U)

IAC ACCESSION NUMBER: MCIC-106362
IAC DOCUMENT TYPE: MCIC -HARD COPY--
The report analyses production costs for manufacturing 16 inches rocket motor cases by utilizing various fabrication techniques and varying casing materials. (U)

IAC SUBJECT TERMS: M--(U)Missile Components, Rocket Motor Cases, Fabrication, Engineering Steel, D6AC, Maraging (300), AISI 4130, Welding, Shear Spinning, Costs, Computer Programming, Rolling.;

AD- 766 232 10/2 20/9

ARNOLD ENGINEERING DEVELOPMENT CENTER ARNOLD AIR FORCE STATION TENN

Development of Design Criteria, Cost Estimates, and Schedules for an MHD High Performance Demonstration Experiment. (U)

DESCRIPTIVE NOTE: Final rept. Apr 72-Apr 73,
AUG 73 117P Garrison,G. W. ;Brogan,T. R. ;Schmidt,H. J. ;Nolan,J. J. ;
REPT. NO. AEDC-TR-73-115
PROJ: ARO-PF226

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with ARO, Inc., Tullahoma, Tenn. Rept. no. ARO-PWT-TR-73-75.
DESCRIPTORS: (*MAGNETOHYDRODYNAMIC GENERATORS, PERFORMANCE(ENGINEERING)), (*ELECTRIC POWER PRODUCTION, MAGNETOHYDRODYNAMIC GENERATORS), MAGNETOHYDRODYNAMICS, SUBSONIC FLOW, GAS TURBINES, EFFICIENCY, DESIGN, COAL, MAGNETS, COMBUSTION, HALL EFFECT, COSTS, ECONOMICS (U)
IDENTIFIERS: GAS DYNAMICS, COST ESTIMATES, DESIGN CRITERIA (U)

The successful application of magnetohydrodynamics (MHD) for commercial, coal-fired, base-load power generation requires that the generator have an energy extraction ratio of approximately 0.20 with a turbine efficiency of 90 percent. There is a significant gap between this required performance and the generator performance which has been achieved to date. The commercial MHD concept is critically dependent upon the generator achieving this required performance, and it is therefore essential that a demonstration of this generator performance have the highest priority. Of equal importance, the generator channel configuration and operating conditions which are necessary in order to achieve the required performance will be determined while accomplishing the performance demonstration. Thus other Office of Coal Research (OCR) sponsored MHD research efforts can be directed toward the real problems and configurations as determined by solid experiments. (Modified author abstract) (U)

AD- 765 473 13/3 13/13 16/1

ARMY CONSTRUCTION ENGINEERING RESEARCH LAB CHAMPAIGN ILL

Cost Performance Analysis of Portland Cement Concrete-Fibrous Polyester Concrete Material System (Sandwich Panels). (U)

DESCRIPTIVE NOTE: Technical rept.,
JUL 73 75P Naus,Dan ;Plummer,Fred ;
Merritt,Ron ;
REPT. NO. CERL-TR-M-45
PROJ: DA-4-KO-78012-ADK-2
TASK: 4-KO-78012-ADK-202

UNCLASSIFIED REPORT

DESCRIPTORS: (*CONCRETE, COSTS), (*UNDERGROUND STRUCTURES, *SANDWICH PANELS), POLYESTER PLASTICS, CONSTRUCTION MATERIALS, REINFORCING MATERIALS, COMPOSITE MATERIALS, LOADS(FORCES), DEFORMATION, COST EFFECTIVENESS (U)
IDENTIFIERS: POLYESTER FIBERS, PORTLAND CEMENTS, HARDENED INSTALLATIONS, CONCRETE POLYMER COMPOSITES (U)

Structural and shielding costs for hardened facilities represent a substantial portion of the construction effort in both cost and time. Presently, the selection of a material is made a priori in favor of reinforced concrete and steel which places limitations on conceptual designs. Potential does exist for reducing construction time and cost of hardened facilities by using new material systems which have been successfully formulated to meet given functional and performance requirements. The material system investigated using analytical and experimental techniques consisted of a conventional portland cement concrete beam which had a layer of fibrous polyester concrete at the compression surface. The analytical results were used to determine the cost-performance feasibility of the reinforced concrete-fibrous polyester concrete material system. The performance analysis results indicate that the reinforced concrete-fibrous polyester concrete material system is performance effective when using ultimate strength design procedures and thus can be used to produce smaller and lighter weight structural elements that are more deployable than the conventional reinforced concrete (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 765 446 5/3 12/2

OPERATIONS RESEARCH GROUP EDGEWOOD ARSENAL MD

The Magnitude of Variability in Cost Estimates. (U)

AUG 73 19P DeArmon,Ira A. , Jr;
REPT. NO. ORG-Note-38

UNCLASSIFIED REPORT

DESCRIPTORS: (*COSTS, UNCERTAINTY), CORRELATION TECHNIQUES, STOCHASTIC PROCESSES, ANALYSIS OF VARIANC(U)
IDENTIFIERS: STANDARD DEVIATION, *COST ESTIMATES (U)

The note proposes guidelines which might be useful in determining variability within cost comparison studies when the statistical variability is unknown. The definition and use of statistical uncertainty is discussed and illustrated with examples pertaining to site location evaluations. A logical means is suggested for deriving a statistical parameter from the engineering and managerial concept of percent error. Once a measure of the standard deviation of a cost has been postulated, use of such a measure is suggested for: Determining the variability of a total cost, Estimating a standard deviation of a total cost difference, and Determining a least significant difference for the comparison of several total cost estimates. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. ZOMO7

AD- 763 878 15/5 14/1

ARMY ELECTRONICS COMMAND FORT MONMOUTH N J

Guidelines for Cost Estimation by Analogy. (U)

DESCRIPTIVE NOTE: Technical rept..
JUL 73 23P Trigo,Clifton T. ;
REPT. NO. ECOM-4125

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMY PROCUREMENT, *COST EFFECTIVENESS), STATISTICAL ANALYSIS, UNCERTAINTY, COSTS, INTEGRATED CIRCUITS (U)
IDENTIFIERS: *COST ESTIMATES, COST ANALYSIS (U)

The increasing ability to tailor the design of electronic circuitry to unique requirements and the rapid technological advances in electronics tends to limit the derivation of mathematical cost estimating relationships (CER). Estimates made for electronic item costs therefore have relied heavily on engineering judgement and analogy estimating. The report covers, in an exploratory sense, the weaknesses of many estimates by analogy and the considerations that may be entertained to approve the estimating procedure. It is the intent of the report to provide a critique of a prior estimate, identify the basic problem areas, and provide suggested procedures to minimize the weaknesses of analogy estimating. Detailed step-by-step procedures are introduced and use of some basic statistical measures are presented. The report concludes with a checklist of questions the estimator should ask himself to determine the adequacy of his estimating endeavor. (Author) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. Z0M07

AD- 763 624 15/5

INSTITUTE FOR DEFENSE ANALYSES ARLINGTON VA COST ANALYSIS GROUP

'Design to Cost' Buzz-Word or Viable Concept. (U)

JUL 73 45P McCullough,James D. ;
REPT. NO. P-968
MONITOR: IDA/HQ 73-15304

UNCLASSIFIED REPORT

DESCRIPTORS: (*GOVERNMENT PROCUREMENT, COST EFFECTIVENESS), (*DEPARTMENT OF DEFENSE, *CONTRACTS), MUNITIONS INDUSTRY, AIRCRAFT INDUSTRY, ELECTRICAL INDUSTRY, ECONOMICS, MILITARY BUDGETS, RESEARCH MANAGEMENT, LOGISTICS (U)

'Design to Cost' is a phrase increasingly used in the DoD management literature. Accompanying the increased use has been a proliferation of interpretations of the phrase. This paper notes three of the interpretations currently in use: a buzz-word which is meant to attract attention to the cost problem, a concept of financial control whereby the Defense Systems Acquisition Review Council establishes a target cost or 'bogey' reflecting the latest estimate for systems during their validation and development phases, and the concept implied by DoD Directive 5000.1 whereby cost is an important parameter during trade-off studies of a system in its design phase. (Modified author abstract) (U)

CORPORATE AUTHOR - MONITORING AGENCY

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Meeting of Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems held at Clearwater, Florida on January 22-24, 1974.
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AD-A003 353

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AD-A003 352

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AD-A021 258

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AD-A017 222

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AD-A030 141

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AD-A030 162

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Historical Inflation Program.
AD-A020 669

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AD-A030 024

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AD-A037 384

ARMY AVIATION SYSTEMS COMMAND ST LOUIS MO SYSTEMS ANALYSIS OFFICE

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Cost-Effectiveness Model I. Prototype Selection and Trade-Office Analyses. (USAAVSCOM-TR-74-23)
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AD-A006 205

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AD-A011 401

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Maintainability Demonstration Cost Savings Analysis.
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Life Cycle Cost Model.
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Cost Optimizing System to Evaluate Reliability (COSTER).
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Minimum Life Cycle Costing for a V/STOL Transport.
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• • •
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Life Cycle Cost Study of Army Spectrometric Oil Program (ASOAP).
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• • •
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Analysis of Overhead Cost for a Defined Cost Center in the Lake City Army Ammunition Plant Using Regression Analysis.
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• • •
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Engineering Economic Analysis of Alternatives Using Benefits as Criteria for Evaluation.
AD- 787 045
• • •
USAMC-ITC-02-08-74-211
Managing Cost Overrun Engineering Change Proposals.
AD-A009 183
• • •
USAMC-ITC-02-08-75-229
The Concept of Life Cycle Costing Applied to the MICV project.
AD-A009 189
• • •
USAMC-ITC-02-08-76-413
A Design-Aid and Cost Estimate Model for Suppressive Shielding Structures.
AD-A020 508

ARMY MATERIEL SYSTEMS ANALYSIS ACTIVITY ABERDEEN PROVING GROUND MD
• • •
AMSAA-TR-103
A Logistic/Cost-Effectiveness Model for Flares.
AD-A007 121
• • •
AMSAA-TR-251
A Comparison of Maintenance Costs and RAM Characteristics of New and Overhauled M35A2 2-1/2 Ton Trucks.
AD-A071 068

ARMY MISSILE COMMAND REDSTONE ARSENAL ALA COST ANALYSIS DIV
• • •
Dependent (Conditional) Probability Aspects of Cost Estimating.
AD-A029 318

ARMY MISSILE MATERIEL READINESS COMMAND REDSTONE ARSENAL AL COST ANALYSIS DIV
• • •
DRSMI-FC-79-1
Target Missile Airframe Costs.
AD-A073 314

ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA PETROLEUM AND ENVIRONMENTAL TECH DIV
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Economic Analysis of the Rotary Kiln and Fluidized Bed P and E Incinerators.

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UNCLASSIFIED Z0M07

(ARLCD-TR-78033)
AD-A062 298

ARMY NATICK DEVELOPMENT CENTER MASS
• • •
NDC-TR-75-69-OR/SA
Uniform Ration Cost System - Summary Report.
AD-A016 111

ARMY NATICK LABS MASS
• • •
USA-NLABS-TR-75-67-OR/SA
The Development of Alternative Food Cost Indexes.
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ARMY NATICK RESEARCH AND DEVELOPMENT COMMAND MA FOOD ENGINEERING LAB
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Cost of Irradiating Bacon and the Associated Energy Savings. (NATICK-TR-79/022)
AD-A069 968

ARMY PROCUREMENT RESEARCH OFFICE FORT LEE VA
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The Application and Utility of Independent Government Cost Estimates.
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• • •
APRO-705
Evaluation of Purchase Cost Factors.
AD-A055 665
• • •
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The Application of Quantity Discounts in Army Procurements.
AD-A066 583
• • •
PRO-007-4
Cost Growth: Effects of Share Ratio and Range of Incentive Effectiveness.
AD-A011 185
• • •

PRD-304
The Design to Unit Production Cost (DTUPC): Range of Applicability to Development Procurements.
AD-A011 186

ARMY RESEARCH INST FOR THE BEHAVIORAL AND SOCIAL SCIENCES ALEXANDRIA VA

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ARI-RM-77-26
A Methodology and Analysis for Cost-Effective Training in the AN/TSQ-73 Missile Minder.
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Survey of Forced and Precautionary Landing Costs.
AD-A080 110

ARMY TANK-AUTOMOTIVE MATERIEL READINESS COMMAND WARREN MI SYSTEMS ANALYSIS DIV

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Maintenance Expenditure Limits (MEL) Tires.
AD-A046 621

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Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator.
AD-A036 159

ARMY TROOP SUPPORT AND AVIATION MATERIEL READINESS COMMAND ST LOUIS MO

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Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft).
AD-A049 847

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TSARCOM-TR-78-7
Historical Escalation of Operation and Maintenance Costs for Field Generator Sets.
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ARMY TROOP SUPPORT COMMAND ST LOUIS MO

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TROSCOM-TM-76-1
Commercial Holding Cost Differential between Dry Storage and Controlled Cold Storage for Meal, Combat, Individual (MCI).
AD-A034 192

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Designing a Manual Cost Data Base.
AD-A006 508

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The 'Should Cost' Concept.
AD- 779 359

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CORP AUTHOR-MONITOR AGENCY-12
UNCLASSIFIED ZONE 7

Can Cost Analysis Improve Management.
AD- 779 579

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The Higher Costs of Buying Less.
AD-A009 931

• • •

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AD-A023 881

• • •

Opportunities for Cost Reductions in the Testing of New Missile Systems.
AD-A024 014

• • •

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AD-A024 389

• • •

Implementation of Risk Assessment in the Total Risk Assessing Cost Estimate (Trace).
AD-A041 467

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Development of Design Criteria, Cost Estimates, and Schedules for an MHD High Performance Demonstration Experiment.
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Manpower/Hardware Life Cycle Cost Analysis Study.
AD-A081 513

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AD- 774 653

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AD-A019 185

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United States General Aviation.
(FAA-AVP-76-12)
AD-A038 539

CORP AUTHOR-MONITOR AGENCY-13
UNCLASSIFIED 20MG7

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AD-A074 054

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AD-A080 962

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AD- 766 342

• • •

Production of Inconel 718 Mortar Tubes by Hydrostatic Extrusion.
(MVT-CR-74027)
AD- 783 416

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Definition of a Systematic Cost- and Logistics-Effectiveness (Scale) Procedure.
(AFLC-75-16)
AD-A021 115

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(FAA-AVP-75-13-VOL-1)
AD-A036 363

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Study of the Effects of Increased Costs on Corporate and Business Flying. Volume II. Research Methodology.
(FAA-AVP-75-13-VOL-2)
AD-A036 364

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Study of the Effects of Increased Costs on Corporate and Business Flying. Volume III.

Planning Guide.
(FAA-AVP-75-13-VOL-3)
AD-A036 365

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Study of the Effects of Increased Costs on Corporate and Business Flying. Volume IV. Data Base.
(FAA-AVP-75-13-VOL-4)
AD-A036 366

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Life Cycle Cost Analysis of Instruction-Set Architecture Standardizati for Military Computer-Based Systems.
(CORADCOM-78-8)
AD-A059 306

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Standard Electronic Module Radar Life Cycle Cost Comparison.
(AFAL-TR-79-1025)
AD-A071 110

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(CEL-CR-77.013)
AD-A041 860

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(CEL-CR-77.014)
AD-A042 385

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Hybrid Technology Cost Reduction and Reliability Improvement Study.
AD-A062 247

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Life Cycle Cost of C-130E Weapon System.
(AFHRL-TR-77-46)
AD-A044 946

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AD-A022 787

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AD-A022 788

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(USAAMRDL-TR-77-17)
AD-A042 134

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Cost/Benefit Tradeoffs Available in Aircraft Noise Technology Applications in the 1980's.
(FAA/EE-80-21)
AD-A082 028

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AD-A076 373

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AD-A058 225

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Cost and Production Functions - A Survey.
AD- 781 711

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Economic Theoretical Structure of Cost-Benefit Analysis.
AD- 779 870

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ORC-75-15
Optimal System Allocations with Penalty Costs. (ARO-12549.7-M)
AD-A017 238

* * *

ORC-75-23
Some Results on An 'Income Fluctuation Problem'.
AD-A020 289

* * *

ORC-76-19
Competitive Prices, Dynamic Programming under Uncertainty, a Nonstationary Case.
AD-A028 243

* * *

ORC-78-4
Dynamic Theory of Production Correspondences. Part III.
AD-A057 951

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ORC-78-16
Scheduling Tasks with Exponential Service Times on Nonidentical Processors to Minimize Various Cost Functions.
AD-A062 471

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Optimal Consumption with a Stochastic Income Stream. (AFOSR-TR-75-0079)
AD-A004 568

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WMSI-WORKING PAPER-279
Making Better Use of Optimization Capability in Distribution System Planning.
AD-A058 273

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Lower Bounds for a Quadratic Cost Functional. (AFOSR-TR-76-1428)
AD-A034 930

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UNCLASSIFIED ZOMO7

Trade-Off Analysis.
AD- 781 717

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TR-4
Cost Tradeoffs Between Local and Remote Computing.
AD-A011 376

* * *

TR-5
Guidelines for the Acquisition of Software Packages.
AD- 782 477

* * *

TR-5
Computer Network Usage -- Cost-Benefit Analysis.
AD-A011 375

* * *

WORKING PAPER-7-74
Computer Network Usage-Cost-Benefit Analysis-I.
AD- 774 740

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AD-B007 209

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CALSPAN-TM-SAT-1-VOL-2
B-1 Systems Approach to Training. Volume II. Appendix A. Cost Details.
AD-B007 209

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Air Force Academy and Air Force ROTC.
(AFHRL-TR-72-2)
AD- 770 746

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A Parametric Linear Complementarity Technique for the Computation of Equilibrium Prices in a Single Commodity Spatial Model.
AD-A066 518

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MSRR-455
The Non Candidate Constraint Method for Reducing the Size of a Linear Program.
AD-A082 423

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WP-52-79-80
The Non Candidate Constraint Method for Reducing the Size of a Linear Program.
AD-A082 423

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AD-A072 553

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AD-A043 360

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Maintenance Costs of Complex Equipment.
AD-A071 473

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A Critique of Cost Analysis.
AD- 766 376

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Cost-Effectiveness of Potential Federal Policies Affecting Research and Development Expenditures in the Auto, Steel and Food Industries.
AD-A046 269

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CRC-295
The Feasibility of a Geographic Pay Supplement for CONUS Military Personnel.
AD-A032 797

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CRC-308
An Evaluation of the GNP Deflator as a Basis for Adjusting the Allowable Price of Crude Oil.
AD-A036 146

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Estimating the Marginal Balance of Payments Cost of Overseas Homeporting.
AD-A006 783

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Methods for Estimating Effectiveness and Cost of Civil Defense Program Elements.
AD-A057 343

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AD-A054 767

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AD-A061 403

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RMAC Analysis of CH-47 Helicopter.
(USAAVSCOM-TR-75-38)
AD-A016 117

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US Army Total Risk Assessing Cost Estimate (TRACE) Guidelines.
(RC-77-3)
AD-A036 327

COLLINS RADIO CO CEDAR RAPIDS IOWA

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AD-A046 012

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(RADC-TR-76-228)
AD-A030 508

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AD-A073 429

CONSAD RESEARCH CORP PITTSBURGH PA

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CONSTRUCTION ENGINEERING RESEARCH LAB (ARMY) CHAMPAIGN IL

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Real Estate Cost Estimating Techniques for PL 91-646 Relocation Costs.
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Industrialized Building Construction Time/Cost Model - First Quarter FY 76 Results.
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Methodology for Establishing Equipment Utilization Standards.
AD-A058 559

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Cost Effectiveness of Alternative Noise Reduction Methods for Construction of Family Housing.
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Construction-Site Noise Control Cost-Benefit Estimating Procedures.
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Computer-Aided Final Design Cost Estimating System Overview.
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AD-A062 719

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Cost of Recycling Waste Material from Family Housing.
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Construction-Site Noise Control Cost-Benefit Estimation Technical Background.
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Military Construction Engineering and Design Cost Forecasts.
AD-A035 262

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UNCLASSIFIED ZOM07

Volume I. Model Development and Data Analysis.
AD-A061 127

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AD-A061 108

CONTROL ANALYSIS CORP PALO ALTO CALIF

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AD-A038 654

COOPER AND CO STAMFORD CONN

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AD- 785 141

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Evaluation of Methodology for Estimating the Cost of Air Force On-the-Job Training. (AFHRL-TR-74-73)
AD-A005 298

CORNELL UNIV ITHACA N Y SCHOOL OF OPERATIONS RESEARCH AND INDUSTRIAL ENGINEERING

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Internal Telephone Billing Rates - A Novel Application of Non-Atomic Game Theory.
AD-A047 109

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TR-372
The Value of the Non-Atomic Game Arising from a Rate-Setting Application and Related Problems.
AD-A066 729

CORPS OF ENGINEERS BALTIMORE MD BALTIMORE DISTRICT

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Binghamton Wastewater Management Study. Design and Cost Appendix.
AD-A036 830

CORPS OF ENGINEERS DETROIT MICH DETROIT DISTRICT

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Southeastern Michigan Wastewater Management Survey Scope Study. Design and Cost Appendix.
AD-A041 115

CORPS OF ENGINEERS WASHINGTON D C

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Costs and Benefits of Aquatic Weed Control.
AD-A067 424

COST ANALYSIS IMPROVEMENT GROUP WASHINGTON D C

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Operating and Support Cost Development Guide for Aircraft Systems.
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DARCOM INTERN TRAINING CENTER TEXARKANA TEX

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An Analysis of the Inflationary Effects on Inventory Systems.
AD-A028 268

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Computer Aided Cost Estimation for Production Engineers.
AD-A035 823

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Investigation of the Cost/Effectiveness of Numerical Control Manufacture of Quick Reaction Spare Parts.
AD-A024 749

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A Regression Model Predicting Part Costs Machined by Numerically Controlled and Conventional Machinery.
AD-A025 133

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AD-A024 818

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Applications of Manufacturing Cost Analysis and Prediction System to the Production of the M13 Tracer.
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IRO-235
Inventory Costs at US Army Materiel Command Depots.
AD-A021 717

DATA RESOURCES INC WASHINGTON DC COST FORECASTING SERVICE

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Development of Cost Escalation Indexes for Operation and Maintenance Budget Categories.
AD-A061 817

DAYRON CORP ORLANDO FLA

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Production Engineering Program to Develop Improved Mass-Production Process for M42/M46 Grenade Bodies.
AD-A058 278

DAYTON UNIV OHIO RESEARCH INST

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Predicted Crack Repair Costs for Aircraft Structures. (ASD-TR-78-39)
AD-A068 699

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A Study of the Cost-Effectiveness of Inventory Management Policies Based on Average Requisition Size. (AFOSR-TR-77-1230)
AD-A046 249

DECISIONS AND DESIGNS INC MCLEAN VA

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Decision Theory Research.
AD- 779 861

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The Art of Cost-Benefit Analysis.
AD-A041 526

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AD-A029 987

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AD-A045 082

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Cost-Benefit Analysis Applied to the Program Objectives Memorandum (POM).
AD-A063 619

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AD-A064 442

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An Overview of the Cost/Benefit Analyses for the Automated Technical Control (ATEC). (SBIE-AD-E100 151)
AD-A063 382

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Cost Effective Analysis.
AD-A052 400

DEFENSE LOGISTICS STUDIES INFORMATION EXCHANGE FORT LEE VA

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Commodity Type as a Factor in Contract Cost Growth.
AD-A007 287

DEFENSE SYSTEMS MANAGEMENT COLL FORT BELVOIR VA

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Parametric Cost Estimating.
AD-A039 563

* * *

Training Package: Foreign Military Sales (FMS) Agreements (Planning and Costing).
AD-A042 771

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Acquiring Affordable Weapons Systems.
AD-A042 777

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The Impact of Independent Cost Analyses on DOD Acquisition Management.
AD-A042 780

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Initial Operational Support: An Alternate Approach.
AD-A042 933

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Using Cost Analysis to Break the Overrun Habit.
AD-A042 935

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AD-A042 938

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Training Developments: A Means to Reduce Life Cycle Costs.
AD-A045 447

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DSMC-RR-77.1
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AD-A041 798

DEFENSE SYSTEMS MANAGEMENT SCHOOL FORT BELVOIR VA

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A Product Improved Method for Developing a Program Management Office Estimated Cost at Completion.
AD-A007 125

* * *

An Economic Analysis of Lay-Offs.
AD-A026 386

* * *

Economic Escalation and the Military Program Manager.
AD-A026 557

* * *

The U.S. Navy Foreign Military Sales Program.
AD-A026 559

* * *

Useful Life Cycle Cost Estimates for Defense Systems - An Evaluation.
AD-A026 560

* * *

Life Cycle Costing and the Effect of Ownership Costs.
AD-A027 288

* * *

Design to Cost of Advanced Lightweight Torpedo.
AD-A028 407

* * *

Management of Special Tooling and Special Test Equipment Acquired on Major Weapon System Acquisition Programs.
AD-A028 408

* * *

An Objective Functional Approach to Structuring Contractual

CORP AUTHOR-MONITOR AGENCY-19
UNCLASSIFIED ZOMO7

Performance Incentives.
AD-A028 487

* * *

Design to Cost Policy Versus Implementation.
AD-A028 859

* * *

Issues and Problems in Life Cycle Costing in DOD Major Systems Acquisition.
AD-A028 951

* * *

Design to Cost and Life Cycle Costing: Complementary or Dichotomous.
AD-A029 255

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The Dilemma of Uncertainties Associated with Cost Estimating in the Project Management Office.
AD-A029 274

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Cost Effective ILS. A Case Study and Evaluation.
AD-A029 482

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An Analysis of the Need for Industrial Engineering Capability in Production at Electronic Systems Division.
AD-A032 061

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Life Cycle Management of Army Tactical Management Information Systems (ACMIS).
AD-A032 499

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AD-A033 291

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DSMS-PMC-75-1
An Overview of DoD Policy for and Administration of Independent Research and Development.
AD-A013 362

DEPARTMENT OF DEFENSE WASHINGTON D C

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Optimization of a Computer Security Index Versus Cost.
AD-A062 003

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VHF-FM Portion of the Single Channel Ground and Airborne Radio Subsystem Concept Formulation Package. Appendix IV. Cost and Operational Effectiveness Analysis.
AD-B009 251

DEPARTMENT OF THE INTERIOR WASHINGTON D C

* * *

The Static Theory of Transfer Pricing.
AD-A014 382

DEPUTY CHIEF OF STAFF FOR PERSONNEL (ARMY) WASHINGTON D C

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Review of Permanent Change of Station Travel Entitlements.
AD-A030 348

DIRECTORATE OF AEROSPACE STUDIES KIRTLAND AFB N MEX

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COEFUV: A Computer Implementation of a Generalized Unmanned Vehicle Cost Model.
AD-A079 038

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AD-A013 802

DOTY ASSOCIATES INC ROCKVILLE MD

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AD-A042 264

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TR-151-VOL-2
Software Cost Estimation Study. Volume II. Guidelines for Improved Software Cost Estimating. (RADC-TR-77-220-VOL-2)
AD-A044 609

DOUGLAS AIRCRAFT CO LONG BEACH CALIF

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AD-A065 513

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AD- 776 127

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AD-B002 859

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IRO-241
Retail Stockage Policy under Budget Constraints.
AD-A041 308

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IRO-242
Bare Bones: A Method for Estimating Provisioning Budget Requirements in the Outyears.
AD-A044 508

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TR-77-6
R. O. Inventory Problem with unknown Mean Demand and Learning (A

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UNCLASSIFIED ZOMO7

Sequel).
AD-A045 210

DYNAMIC SCIENCES INTERNATIONAL INC SEPULVEDA CA

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(CORADCOM-77-2727-F-1)
AD-A070 629

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AD-A061 389

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(AFHRL-TR-79-28(II))
AD-A075 209

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Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition.
(AFHRL-TR-79-28(I))
AD-A075 272

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(DNA-4723T)
AD-A067 218

ENVIRONMENTAL PREDICTION RESEARCH FACILITY (NAVY) MONTEREY CALIF

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Cost Effectiveness of Typhoon Forecast Improvements.
AD- 781 324

FEDERAL AVIATION ADMINISTRATION WASHINGTON D C SYSTEMS RESEARCH AND DEVELOPMENT SERVICE

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Central Flow Control Automation Program Cost-Benefit Analysis.
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AD-A064 466

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Financing the Airport and Airway System: Cost Allocation and Recovery.
AD-A064 454

FEDERAL AVIATION ADMINISTRATION WASHINGTON D C OFFICE OF AVIATION SYSTEM PLANS

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AD-A065 145

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A Round-Trip Location Problem on a Tree Graph.
(ARO-11621.5-MA)
AD-A028 666

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RR-76-17
Permutation Type Schedules on a Single Machine under Cost Criteria.
AD-A032 071

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RR-79-7
Production Lot Sizing with Material Handling Cost Considerations.
AD-A081 492

FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO

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Problems of the Improvement of Estimation. Account. Analysis and

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AD-A046 665

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Comparative In-Place Costs of Wood and Steel Framing.
AD-A071 428

FRANKEL (E G) INC CAMBRIDGE MASS
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1039(G)-3
Life Cycle Cost Analysis of Merchant Ship Expeditionary Logistic Facilities.
AD- 773 014

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DOD 'Total Force Management' -- Fact or Rhetoric.
AD-A077 264
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GAO/FPCD-79-10
Defense Use of Military Personnel In Industrial Facilities. Largely Unnecessary and Very Expensive.
AD-A079 580

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AD-A079 804
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AD-A016 410
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AD-A044 037

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(AFFDL-TR-75-124)
AD-A023 416

GENERAL ELECTRIC CO CINCINNATI OHIO AIRCRAFT ENGINE GROUP
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R78AEG534
Ti/Al Design/Cost Trade-Off Analysis.
(AFAPL-TR-78-74)
AD-A064 693

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Unattended Radar Station Design for Dewline Application. Volume II.
(ESD-TR-78-176-VOL-2)
AD-A059 510

GENERAL RESEARCH CORP MCLEAN VA
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CR-228
Documentation of Analytical Services Provided in Support of Navy Enlisted Personnel Projections for POM-80.
AD-A063 529

GENERAL RESEARCH CORP MCLEAN VA
OPERATIONS ANALYSIS DIV
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AD- 771 988
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Economic Analysis Handbook Theory and Application. Volume IV. Case Studies.
AD- 771 989
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AD-A001 033
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OAD-CR-197
Development of Methods for Analysis of the Cost of Enlisted Attrition.
AD-A047 198

GENERAL RESEARCH CORP SANTA BARBARA CALIF
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CR-1-519
Cost Estimating Study, an Abstract of Activities Performed in 1974.
AD-AJ14 349

GENERAL RESEARCH CORP SANTA BARBARA CALIF SCIENCE AND TECHNOLOGY DIV
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GRC-CR-1-419-VOL-1
Cost Analysis of Avionics Equipment.
(AFAL-TR-73-441-VOL-1)
AD- 781 132

GEORGE WASHINGTON UNIV WASHINGTON D C PROGRAM IN LOGISTICS
* * *
SERIAL-T-336
Minimizing the Cost of Completing a Project Subject to a Bound on the Expected Delay Time.
AD-A027 882
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SERIAL-T-381
Minimizing a Project Cost with Bounds on the Expectation and Variance of the Delay Time.
AD-A058 137
* * *
SERIAL-T-383
The Labor Market of the United States Shipbuilding Industry, 1960-1970.
AD-A059 224

GEORGIA INST OF TECH ATLANTA COLL OF INDUSTRIAL MANAGEMENT
* * *
GIT-MS-78-1
The Pricing of Computer Services: A Bibliography.
AD-A048 782

GEORGIA INST OF TECH ATLANTA ENGINEERING EXPERIMENT STATION
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GIT-A-1498
Study of Comparative Costs for Far-Field Antenna Patterns Determined by Near-Field Measurements and by Far-Field Measurements.
AD- 775 472

GOODYEAR AEROSPACE CORP AKRON OHIO
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GER-16010
Slow Descent Recovery System Technology Study and Data Program.
(AFFDL-TR-74-7)
AD- 783 258

GRUMMAN AEROSPACE CORP BETHPAGE NY
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Manufacturing Cost Data Collection and Analysis for Composite Production Hardware.
(AFFDL-TR-79-3041)
AD-A073 507

GTE SYLVANIA INC NEEDHAM HEIGHTS MASS COMMUNICATIONS SYSTEMS DIV
* * *
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AD-A036 405

HARVARD UNIV CAMBRIDGE MASS
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TR-33
Pareto Efficiency with Costly Transfers.
AD-A069 212

HONEYWELL INC ST LOUIS PARK MN AVIONICS DIV
* * *
W0597-FR
Investigation of a Low-Cost Servoactuator for HYSAS.
(USARTL-TR-78-30)
AD-A059 188

HUGHES AIRCRAFT CO FULLERTON CA GROUND SYSTEMS GROUP
* * *
Reliability Acquisition Cost Study (II).
(RADC-TR-75-270)
AD-A020 457

HUGHES HELICOPTERS CULVER CITY CALIF
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HH-76-281-VOL-2
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UNCLASSIFIED 20MG7

(USAAMRDL-TR-77-19B)
AD-A046 279

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AD-A054 954

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TR-7330-1
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(IWR-74-1)
AD- 777 884

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COORDINATED SCIENCE LAB

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R-707
Performance/Cost Evaluation of Pipelined Cordic Function Units.
AD-A023 442

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R-815
An Analysis of Storage, Retrieval, and Update Costs for Data Bases which are Tables of Entries.
AD-A069 763

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UILU-ENG-75-2243
Performance/Cost Evaluation of Pipelined Cordic Function Units.
AD-A023 442

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(RADC-TR-73-329)
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AD-A078 232

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(IDA/HQ-73-15304)
AD- 763 624

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P-1171
Military Cost Analysis in the FCRCs (Federal Contract Research Centers) - 1950-1975.
(IDA/HQ-75-18002)
AD-A019 702

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P-1195
Air Force Central Supply and Maintenance Cost Data Base FYs 1965-1974.
(IDA/HQ-76-18368)
AD-A024 251

• • •

P-1291
Contractor Initiatives for Reliability, Maintainability, and Cost Improvement.
(IDA/HQ-77-19708)
AD-A047 378

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ARLINGTON VA SCIENCE AND TECHNOLOGY DIV

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(IDA/HQ-78-20721)
AD-A073 400

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(IDA/HQ-74-16529)
AD-A004 841

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(IDA/HQ-77-19304)
AD-A047 391

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AD-A023 223

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AD-A055 147

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AD-A042 166

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Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 2. Green River Basin.
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• • •

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Acquisition Costing in the Federal Government.
AD-A060 346

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(RADC-TR-78-280)
AD-A065 643

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AD- 770 556

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The Pentagon 'Four-Step',
AD-A053 963

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(ESD-TR-78-144)
AD-A058 102

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AD-A057 444

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AD-A059 222

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(IWR-CR-74-7)
AD- 787 327

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A-7 ALOFT Economic Analysis Development Concept.
AD-A013 221

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Fiber- and Integrated-Optic Communication Technology.
AD- 771 402

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Multifrequency Arrays: Design and Cost Considerations.
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* * *

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A-7 ALOFT Life-Cycle Cost and Measures of Effectiveness Models.
AD-A026 206

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NISC-TRANS-3953
Production of Pipes and Assembly of Pipelines and Pipe Systems on Ships (Izgotovleniye i Montazh Sudovykh Truboprovodov i Sistem).
AD-A044 255

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Automatic Testing, A Tool for Improving Fleet Readiness.
AD-A022 307

NAVAL OCEAN SYSTEMS CENTER SAN DIEGO CA

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NOSC/TD-223
Low Cost Components: Selection and Acquisition of Microelectronic Devices.
(GIDEP-E150-2363)
AD-A067 667

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AD-A074 189

* * *

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AD-A075 249

* * *

An Analysis of the Cost Effectiveness of a Specialized Mission Helicopter in the U.S. Coast Guard.
AD-A075 444

* * *

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AD-A075 530

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UNCLASSIFIED Z0M07

Costs and Decision-Making Processes in Non-Profit, General-Purpose Hospitals.
AD-A078 155

* * *

The Cost of Money on Assets Under Construction and Defense Contracting.
AD-A078 272

* * *

Pricing for U.S. Army Technical Assistance Field Teams (TAFT).
AD-A078 279

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Rate Stabilization and Its Impact on U. S. Naval Shipyards.
AD-A081 146

* * *

Complexity as a Factor of Quality and Cost in Large Scale Software Development.
AD-A081 604

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Cost Estimating Relationships for Naval Surface Ship Electronic Warfare Equipment.
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* * *

An Approach to the Estimation of Life Cycle Costs of a Fiber-Optic Application in Military Aircraft.
AD-A019 379

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The A-7 ALOFT Cost Model: A Study of High Technology Cost Estimating.
AD-A021 913

* * *

Efficiency Indicators for Education and Training.
AD-A028 854

* * *

Rate Stabilization at Navy Industrial Fund Research and Development Activities.
AD-A035 389

* * *

Implementing Replacement Cost Accounting.
AD-A036 177

* * *

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AD-A039 922

* * *

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AD-A047 126

* * *

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AD-A047 167

* * *

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* * *

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* * *

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AD-A057 992

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AD-A061 421

* * *

The FFG-7 Frigate an Application of the Design-to-Cost Concept.
AD-A062 169

* * *

Cost-Benefit Analysis of Training a Naval Reserve Seabee.
AD-A062 195

* * *

A Cost-Benefit Analysis of the Proposed Consolidation of All Navy and Marine A6-E Fleet Replacement Training Squadrons.
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* * *

A Lease versus Buy Decision Methodology for the Army: A proposal.
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* * *

Cost-Performance Relationships for Use with the Uniform Chart of Accounts for Militart Medical Treatment Facilities.
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* * *

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AD- 775 281

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AD- 776 539

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AD-A031 839

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On the Existence of Relative

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Moral Hazard.
AD- 767 698

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AD- 787 425

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Marginal Cost Factors for Surface Combatant Ships.
AD-A022 311

NAVAL SHIP ENGINEERING CENTER HYATTSVILLE MD SHIP CONCEPT DESIGN DIV

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6112-082-75
The Impact of Ship Design Margins.
AD-A015 638

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AD-A012 636

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AD-A042 405

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TAEG-TM-75-4
Acquisition Cost Estimating Using Simulation.
AD-A015 624

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Fuel Cost Escalation Study.
AD-A040 209

NAVAL WEAPONS ENGINEERING SUPPORT ACTIVITY WASHINGTON D C

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Navy Weapon System Life-Cycle Cost Model.
AD-A003 905

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AD-A035 066

NAVY FLEET MATERIAL SUPPORT OFFICE MECHANICSBURG PA OPERATIONS ANALYSIS DEPT

* * *

73
Analysis of Criteria for Changing Standard Prices.
AD- 767 090

* * *

102
Application of the Penalty Cost Model to Centrally Managed Items.
AD- 768 731

* * *

105
Navy Systemwide Stock Rationing.
AD- 771 354

* * *

118
Analysis of Proposed Stock Range Rules.
AD-A009 120

* * *

130
Conventional AS Load List Study.
AD-A045 461

NAVY PERSONNEL RESEARCH AND DEVELOPMENT CENTER SAN DIEGO CALIF

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NPRDC-SR-78-14
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AD-A058 250

* * *

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AD-A014 209

* * *

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Facilities Maintenance Demonstration Study.
AD-B009 681

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(FAA/EE-79-22)
AD-A080 130

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(ARO-13119.3-M)
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(AFFDL-TR-76-87-VOL-1)
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(AFFDL-TR-76-87-VOL-2-APP)
AD-A041 496
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Advanced Composite Cost Estimating Manual. Volume II.
(AFFDL-TR-76-87-VOL-2)
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AD- 782 182

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AD-A080 930

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P-5100
Fuel from Organic Matter.
AD-A002 204

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P-5136
Problems in Avionics Life-Cycle Analysis.
AD- 783 320

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P-5160
Cost and Efficiency in Military Specialty Training.
AD- 786 652

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P-5166
Considering the Cost of DOD personnel: A Look at Some Issues Requiring Further Analysis.
AD- 786 581

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P-5197
Cost, Benefit, and Risk -- Keys to Evaluation of Policy Alternatives.
AD- 783 325

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P-5296
Privacy Protection in Databanks: Principles and Costs.
AD-A023 406

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CORP AUTHOR-MONITOR AGENCY-33
UNCLASSIFIED ZOMO7

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P-5345
Getting 'Real' Data for Life-Cycle Costing.
AD-A010 960

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P-5496
Measurement of Technological Innovation by Firms.
AD-A021 712

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P-5498
Comments on LMFBR Cost-Benefit Analysis.
AD-A022 296

* * *

P-5524
A Critique of Cost-Effectiveness.
AD-A022 195

* * *

P-5534
Cost Considerations in Policy Analysis.
AD-A022 191

* * *

P-5615
Health Care Cost Sharing and Cost Containment.
AD-A032 220

* * *

P-5673
The Move Towards Marginal Cost Pricing in Electricity.
AD-A037 920

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P-5745-1
Avionics Data for Cost Estimating.
AD-A043 265

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R-1268-PR
A Computer Centralization Cost Model for Conceptual Design.
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AD- 780 636

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AD- 783 936

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R-1399-PR
A Method for Least-Cost Scheduling of Personnel through Training Course Sequences.
AD- 783 629

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A Weapon-System Life-Cycle Overview: The A-7D Experience.
AD-A017 125

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Bias in Initial Cost Estimates: How Low Estimates Can Increase the Cost of Acquiring Weapon Systems.
AD- 787 395

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R-1483-ARPA
Manpower Cost Reduction in Electronics Maintenance: Framework and Recommendations.
AD- 784 444

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R-1518-PR
Estimating Life-Cycle Costs: A Case Study of the A-7D.
AD-A011 643

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AD-A009 844

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Directed Licensing: An Evaluation of a Proposed Technique for Reducing the Procurement Cost of Aircraft.
AD-A007 364

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UNCLASSIFIED Z0MO7

AD-A009 074

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Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A022 086

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Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A013 258

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R-1722-PR
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AD-A018 826

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R-1741-DDRE
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AD-A028 088

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R-1854-PR
A Computer Model for Estimating Development and Procurement Costs of Aircraft (DAPCA-III).
AD-A025 276

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Costs of the Next Due Base-Level Inspection during a Depot Visit.
AD-A026 299

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R-1942-PR
Scheduled Maintenance Policies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program.
AD-A030 146

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R-2098-AF
Introduction to the USAF Total Force Cost Model.
AD-A042 460

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R-2103/1-AF
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Turbine Engines: Executive Summary.
AD-A039 062

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A Critique of Aircraft Airframe Cost Models.
AD-A047 181

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AD-A064 333

RAYTHEON CO HUNTSVILLE ALA EQUIPMENT DIV

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(RADC-TR-76-191)
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(RADC-TR-77-178)
AD-A044 034

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S-2294
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(RADC-TR-78-81)
AD-A056 996

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AD- 918 945

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AD-A080 808

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(RADC-TR-73-277)
AD- 773 848

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AD-A062 706

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AD-A081 666

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AD-A013 514

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AD-A045 163

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SAI-MT-2010-VOL-3
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume III. Appendices.
AD-A045 164

SCRIPPS INSTITUTION OF OCEANOGRAPHY LA JOLLA CALIF

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SIO-REF-73-33
Cost Considerations for Handling Data Buoys at Sea.
AD- 774 744

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TR-1
Cost Benefits of Navy Recreation: Summary of a Conference Held at the Smithsonian Institution on December 1973.
AD- 784 499

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(RADC-TR-74-259)
AD-A002 322

SOUTHWEST RESEARCH INST SAN ANTONIO TEX ARMY FUELS AND LUBRICANTS RESEARCH LAB

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AFLRL-91
Evaluation of Environmental and Economic Benefits through Use of Synthetic Motor Oils.
AD-A046 277

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SSC-TN-5943-1
Price Indexes for Soviet 18-Sector Input-Output Tables for 1959-1975.
AD-A059 169

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SSC-TN-5943-4
Deflation of the 18 Sector Soviet Input-Output Tables.
AD-A059 283

STANFORD RESEARCH INST MENLO PARK CALIF

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Requirements and Alternative Designs for Automating the Publication of NAVSEA MOTD at the NSDSA.
AD-A036 122

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AD-A028 374

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AD-A028 375

CORP AUTHOR-MONITOR AGENCY-36
UNCLASSIFIED ZOMO7

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TR-64
A Theory for Semi-Markov Decision Processes with Unbounded Costs and Its Application to the Optimal Control of Queueing Systems.
AD-A030 649

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TR-65
Optimal Control of the M/G/1 Queuring System with Removable Server-Linear and Non-Linear Holding Cost Function.
AD-A030 646

• • •

TR-78
Computation of the Optimal Average Cost Policy for the Two Terminal Shuttle.
AD-A060 912

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TR-185
Optimal Selling When the Price Distribution is Unknown.
AD-A044 897

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TR-22
Denumerable State Markov Decision Processes with Unbounded Costs.
AD- 771 432

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TR-157
Denumerable State Markov Decision Processes with Unbounded Costs.
AD- 771 432

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TR-168
A Difference Equation Approach to the Optimal Control of a Multiclass Queue with Discounted Costs.
AD-A017 658

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SOL-78-6
Are Dual Variables Prices. If Not, How to Make Them More So.
AD-A060 819

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An Approach to the Allocation of Common Costs of Multi-Mission Systems.
AD- 766 624

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HH-73-76
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(AMMRC-CTR-73-43)
AD- 771 957

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Multilevel Modularization of Systems to Minimize Life Cycle Cost.
(RADC-TR-78-207)
AD-A061 636

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TR-72-3
Data Management Systems for Structured Information Retrieval.
(RADC-TR-73-410)
AD- 776 808

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(FAA-ASP-78-3-VOL-1)
AD-A058 272

TECHNION - ISRAEL INST OF TECH HAIFA FACULTY OF INDUSTRIAL AND MANAGEMENT ENGINEERING

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(AFOSR-79-0828)
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(USAAVSCOM-TR-75-27)
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AD-A082 328

TEXAS A AND M UNIV COLLEGE STATION INST OF STATISTICS
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THEMIS-TR-52
Incorporating Project Cost Considerations into Stochastic PERT (Project Evaluation and Review Technique).
AD-A025 021
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THEMIS-TR-61
Project Scheduling with Discontinuous Piecewise Convex Activity Cost Functions.
AD-A060 500

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CCS-339
Transforms and Approximations in Cost and Production Function Relations.
AD-A068 993

THIOKOL CORP HUNTSVILLE AL HUNTSVILLE DIV
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U-79-03
Methoology for Producing Low Cost/Disposable Mandrels. (DRSMI/RK-CR-80-2)
AD-A081 990

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO FL
• • •
TAEG-68
A Cost Management Control Procedure for Initial Training in Surface Ship Acquisition Programs.
AD-A070 037
• • •
TAEG-77
Incremental Costing Model for Use with the CNET Per Capita Course Costing Data Base: System I.
AD-A081 759

TRAINING ANALYSIS AND EVALUATION GROUP (NAVY) ORLANDO FLA
• • •
TAEG-47
Academic Attrition from Navy Technical Training Class 'A' School Courses.
AD-A044 029
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TAEG-TM-76-1
Training Resource Classifications: Direct-Indirect and Fixed-Variable Cost Categories.
AD-A029 179
• • •
TAEG-TM-76-2
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AD-A029 195

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TSC-FAA-76-23
Airport Surface Traffic Control Tags Planning Alternatives and Cost/Benefit Analysis. (FAA-RD-77-9)
AD-A037 790
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TSC-FAA-77-16
Preliminary Limited Surveillance Radar (LSR) cost/Benefit Analysis. (FAA-ASP-77-10)
AD-A046 929

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• • •
Low Cost Oxygen Electrodes.
AD- 769 905

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SER-510016
Advanced Structures Concepts R and M/Cost Assessments. (USARTL-TR-79-18)
AD-A077 373

UNITED TECHNOLOGIES CORP WINDSOR LOCKS CONN HAMILTON STANDARD DIV
• • •
Influence of Noise Reduction on Weight and Cost of General Aviation Propellers. (FAA-AEE-79-18)
AD-A082 120

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF INDUSTRIAL AND SYSTEMS ENGINEERING
• • •
TR-4
Cost Tradeoffs Between Local and Remote Computing.
AD- 767 071
• • •
TR-5
Computer Network Usage--Cost/Benefit Analysis - I.
AD- 771 439

UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF QUANTITATIVE BUSINESS ANALYSIS
• • •
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Methods in the Statistical and Economic Analysis of Warranties.
AD-A045 889

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AD-A001 015

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AD- 777 623

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AD-A072 348

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Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume II.
AD-A072 349

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Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume II. Appendix I.
AD-A072 350

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Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume II. Appendix II.
AD-A072 351

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Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume III.
AD-A072 352

VIRGINIA POLYTECHNIC INST AND STATE UNIV BLACKSBURG DEPT OF AEROSPACE AND OCEAN ENGINEERING

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VPI-AERO-103
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AD-A077 331

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AD-A061 227

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Optimal System Allocations with Penalty Costs.
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* * *
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AD-A038 539

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Commodity Type as a Factor in Contract Cost Growth.
AD-A007 287
Cost Growth: Effects of Share Ratio and Range of Incentive Effectiveness.
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Academic Attrition from Navy Technical Training Class 'A' School Courses.
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The Labor Market of the United States Shipbuilding Industry, 1960-1970.
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AD-A022 307
A Regression Model Predicting Part Costs Machined by Numerically Controlled and Conventional Machinery.
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An Overview of the Cost/Benefit Analyses for the Automated Technical Control (ATEC).
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Cost Analysis of Avionics Equipment.
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Models and Methodology for Life Cycle Cost and Test and Evaluation Analysis.
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Problems in Avionics Life-Cycle Analysis.
AD- 783 320
A Description of a Life Cycle Cost Model for Inertial Navigation Systems.
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Avionics Cost Reduction Through Improved Tests.
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Cost Estimating Relationships for Procurement Costs of Airborne Digital Computers and Inertial Measurement Units for Use in Remotely Piloted Vehicles.
AD-A003 353
A-7 ALOFT Economic Analysis Development Concept.
AD-A013 221
Avionics Proliferation: A Life Cycle Cost Perspective.
AD-A016 478
Avionics Data for Cost Estimating.
AD-A043 265
An Economic Analysis of Life Cycle Military Manpower Maintenance and Training Requirements in Avionics Minicomputer and Microcomputer Systems.
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AD-A059 164
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model Volume III.
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Integrated Thermal Avionics Design (ITAD).
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Avionics Standardization Potential Analysis.
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Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 2. Green River Basin.
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A Logistics Support Cost Analysis of the Advanced Aerial Refueling Boom.
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Rate Stabilization at Navy Industrial Fund Research, Development, Test and Evaluation Activities.
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An Economic Analysis of the Relevant Costs in Air Force Building Replacement.
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Cost Considerations for Handling Data Buoys at Sea.
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Optimal Selling when the Price Distribution is Unknown.
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Criteria for Evaluating the Performance of Compilers.
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OPTIMIZATION
Development of a Dynamic Simulation Filter.
AD-B001 641

•COMPUTERS
Measurement of Technological Innovation by Firms.
AD-A021 712

•CONCRETE
COSTS
Cost Performance Analysis of Portland Cement Concrete-Fibrous Polyester Concrete Material System (Sandwich Panels).
AD- 765 473

•CONSTRUCTION
Computer-Based Specifications: Cost Analysis Study.
AD- 786 551
Optimal System Allocations with Penalty Costs.
AD-A017 238
A Study of Variability of Construction Cost Estimates.
AD-A028 018
Cost Effectiveness of Alternative Noise Reduction Methods for Construction of Family Housing.
AD-A028 922
Military Construction Engineering and Design Cost Forecasts.
AD-A035 262
Military Construction Supervision and Administration Cost Forecasts.
AD-A040 742
Engineering and Design Cost/Rate Forecasting System. Volume II. User's Manual.
AD-A061 104
Engineering and Design Cost/Rate Forecasting System. Volume I. Model Development and Data Analysis.
AD-A061 127

•CONSTRUCTION EQUIPMENT
Guidance for Selection of Equipment Fleet.
AD- 770 927
Construction Equipment Cost Guide.
AD-A016 788
Construction-Site Noise Control Cost-Benefit Estimation Technical Background.
AD-A050 813
Construction-Site Noise Control Cost-Benefit Estimating Procedures.
AD-A051 737

•CONSTRUCTION MATERIALS
Corrosion Costs of Air Force and Army Facilities and Construction of a Cost Prediction Model.
AD-A042 628
Trends in the Real Prices of Selected Construction Products and Materials. 1946-1976.
AD-A053 228

•CONSUMERS

Calculation of the Cost of Warranty Policies as a Function of Estimated Life Distributions.
AD-A001 015

*CONTAINERS
Cost Benefits Study - Interim 16mm Microfilm Container and Reel Assembly.
AD- 776 962

*CONTRACT ADMINISTRATION
The Concept of Life Cycle Costing Applied to the MICV project.
AD-A009 189
Military Cost Analysis in the FCRCs (Federal Contract Research Centers) - 1950-1975.
AD-A019 701
An Objective Functional Approach to Structuring Contractual Performance Incentives.
AD-A028 487
The Dilemma of Uncertainties Associated with Cost Estimating in the Project Management Office.
AD-A029 274
Using Cost Analysis to Break the Overrun Habit.
AD-A042 935
Special Termination Costs Clause, ASPR 8-712.
AD-A042 938
An Analytical View of Advance Incentivized Overhead Agreements in the Defense Industry.
AD-A047 634
The Pentagon 'Four-Step',
AD-A053 963
Transportation Costs as a Consideration in Air Force Contracts.
AD-A067 949
Decision Criteria for Cost-Plus-Award-Fee Contracts in Major Systems Acquisitions.
AD-A070 092
An Analytical Evaluation of Procedures for Closing Cost-Type Contracts.
AD-A072 697
The A-10 and Design-to-Cost: How Well Did It Work.
AD-A075 437
Development of Improved Criteria for Determining the Need for Pricing Staff Action.
AD-A075 582
Cooperative Logistics Supply Support Arrangement Pricing Relationships Between Programmed and Nonprogrammed Requisitions.
AD-A075 587

*CONTRACT PROPOSALS
The Use of Statistical Sampling in Contract Pricing.
AD-A030 716
Cost of Terminating Contracts Study (COTCOS-I).
AD-A037 408

*CONTRACTS
Guide for Monitoring Contractors Indirect Costs.
AD- 772 078
Commodity Type as a Factor in Contract Cost Growth.
AD-A007 287
Guide for Monitoring Contractors' Indirect Cost.
AD-A009 951
Users Manual: Forecast of Schedule/Cost Status Utilizing Cost Performance Reports of the Cost/Schedule Control Systems Criteria: A Bayesian Approach (FORTRAN IV).
AD-A011 401
The Application and Utility of Independent Government Cost Estimates.
AD-A013 795
An Appraisal of the Short-Term Cost Results of a Selected Number of Air Force Should Cost Studies.
AD-A016 262
Cost/Schedule Control System Criteria: An Analysis of Managerial Utility.
AD-A016 270
The Impact of Required Contractual Clauses on System Acquisition Policies: The Case of Value Engineering.
AD-A018 526
An Evaluation of Material Cost Escalation Impact on Proposals at Boeing Wichita.
AD-A023 530
Analysis of the Effectiveness of the Preproduction Evaluation Contract in Preventing Cost Overruns.
AD-A024 818
An Objective Functional Approach to Structuring Contractual Performance Incentives.
AD-A028 407

DEPARTMENT OF DEFENSE
'Design to Cost' Buzz-Word or Viable Concept.
AD- 763 624

*CONTROL
A Computerized Log for Systems and Cost Analysis Division Cost Estimate Control Data Center (CECDC) Validation Activity.
AD-A049 976

*CONTROL SYSTEMS
DC-9 Noise Retrofit Feasibility. Volume I. Lower Goal Noise. Performance and Cost Evaluation.
AD- 776 127
A Computer Program for Tracking Cost/Schedule Control Systems Criteria.
AD-A042 314
A Low-Cost, General Purpose Data Acquisition and Control System for the PDP-11 Minicomputer.
AD-A050 224
An Overview of the Cost/Benefit Analyses for the Automated Technical Control (ATEC).
AD-AC63 382

*CONTROL THEORY
Lower Bounds for a Quadratic

Cost Functional.
AD-A034 930
Reduction of the Cost of Feedback in Systems with Large Parameter Uncertainties.
AD-A046 012
Approximation Methods for the Minimum Average Cost Per Unit Time Problem with a Diffusion Model.
AD-A058 876

*CONVERSION
Price Indexes for Soviet 18-Sector Input-Output Tables for 1959-1975.
AD-A059 169

*COOLING
Design of Solar Heating and Cooling Systems.
AD-A062 719

*CORPORATIONS
The Deterioration of Pension Plan Conditions in Large Corporations: The Need for More Extensive Disclosure.
AD-A021 944

*CORRECTIONS
Optimizing the Cost Effectiveness of Military Corrections: An Assessment of Program Evaluations and Related Data.
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*CORROSION
Corrosion Costs of Air Force and Army Facilities and Construction of a Cost Prediction Model.
AD-A042 628

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Three Life Cycle Cost Models for Inertial Systems.
AD-A000 483

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Development of Cost Parameters and Inventory Level Decisions at DSUs (Direct Support Units).
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Guide for Monitoring Contractors Indirect Costs.
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Cost Considerations for Handling Data Buoys at Sea.
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Development of Cost Estimating Relationships for FLEETSATCOM. Volume I.
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A Computer Centralization Cost Model for Conceptual Design.
AD- 776 028
An Economic Analysis of the Relevant Costs in Air Force Building Replacement.
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Guidelines for Preparing Economic Analysis for Army Aircraft Product Improvement Proposals.
AD- 776 938
Cost Benefits Study - Interim 16mm Microfilm Container and Reel Assembly.
AD- 776 962
A Cost-Benefit Analysis of Competitive Versus Sole Source Procurement of Aircraft Replenishment Spare Parts.
AD- 777 247
Limit Criteria for Low Cost Airframe Concepts.
AD- 777 572
A Quantitative Examination of Cost-Quantity Relationships, Competition during Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume I. Executive Summary.
AD- 778 612
Rome Air Development Center R and D Program in Computer Language Controls and Software Engineering Techniques.
AD- 778 836
The 'Should Cost' Concept.
AD- 779 359
Can Cost Analysis Improve Management.
AD- 779 579
Cost Analysis of Avionics Equipment.
AD- 781 132
Cost, Benefit, and Risk -- Keys to Evaluation of Policy Alternatives.
AD- 783 325
A Method for Least-Cost Scheduling of Personnel through Training Course Sequences.
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A Quantitative Examination of Cost-Quantity Relationships, Competition During Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume II.
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Parametric Cost Estimating with Applications to Sonar Technology.

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AD-A000 557
Tables of Quaternary S-Curves Based on 70%-72% R and D Curves and 67%-99% Production Curves. Volume 2.

AD-A000 558
Tables of Quaternary S-Curves Based on 73%-75% R and D Curves and 67%-99% Production Curves. Volume 3.

AD-A000 559
Tables of Quaternary S-Curves Based on 76%-99% Production Curves. Volume 4.

AD-A000 560
Tables of Quaternary S-Curves Based on 79%-81% R and D Curves and 67%-99% Production Curves. Volume 5.

AD-A000 561
Tables of Quaternary S-Curves Based on 82%-84% R and D Curves and 67%-99% Production Curves. Volume 6.

AD-A000 562
Tables of Quaternary S-Curves Based on 88%-90% R and D Curves and 67%-99% Production Curves. Volume 8.

AD-A000 564
Tables of Quaternary S-Curves Based on 97%-99% R and D Curves and 67%-99% Production Curves. Volume 11.

AD-A000 567
Tables of Quaternary S-Curves Based on 85%-87% R and D Curves and 67%-99% Production Curves. Volume 7.

AD-A001 033
Tables of Quaternary S-Curves Based on 91%-93% R and D Curves and 67%-99% Production Curves. Volume 9.

AD-A001 035
Tables of Quaternary S-Curves Based on 94%-96% R and D Curves and 67%-99% Production Curves. Volume 10.

AD-A001 036
Economic Comparison of Wood-Preservative Treated and Untreated 105mm Ammunition Boxes.

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Operating and Support Cost Development Guide for Aircraft Systems.

AD-A001 747
Managerial Inventory Formulations with Stockout Objectives and Fiscal Contraints.

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Operating and Support Costing Guide: Army Weapon Systems.

AD-A003 436
Navy Weapon System Life-Cycle Cost Model.

AD-A003 905
Army Inventory Cost Parameters.

AD-A003 922
Automatic Data Processing Costs in the Defense Department.

AD-A004 841
Evaluation of Methodology for Estimating the Cost of Air Force On-the-Job Training.

AD-A005 298
AMC Guide for Design to Unit Production Cost (DTUPC).

AD-A006 214
Evaluation of Proposed Criteria to be Used in the Selection of Candidates for Reliability Improvement Warranties.

AD-A006 335
An Economic Model to Determine Costs when Intermediate Level Repair Uses Remotely Located Automatic Test Equipment.

AD-A006 341
Optimization of the Time Between Aircraft Overhauls by Minimizing Maintenance Cost.

AD-A006 505
Directed Licensing: An Evaluation of a Proposed Technique for Reducing the Procurement Cost of Aircraft.

AD-A007 064
Commodity Type as a Factor in Contract Cost Growth.

AD-A007 287
A Cost/Benefit Matrix Model of Nuclear Deterrence.

AD-A007 467
The Development of Alternative Food Cost Indexes.

AD-A009 096
An Appraisal of Logistics Support Costs Used in the Air Force IROS Program.

AD-A009 844
Alcoholism in the Navy: A Cost Study.

AD-A009 910
Guide for Monitoring Contractors' Indirect Cost.

AD-A009 951
Cost Growth: Effects of Share Ratio and Range of Incentive Effectiveness.

AD-A011 185
The Design to Unit Production Cost (DTUPC): Range of Applicability to Development Procurements.

AD-A011 186
Estimating Life-Cycle Costs: A Case Study of the A-7D.

AD-A011 643

The Possible Application of Numerically Controlled Manufacturing to Navy Supply System Procurement.
AD-A012 636
Petroleum Transportation Systems Study. Chapter III. Port Costs.
AD-A012 807
Petroleum Transportation Systems Study. Chapter V. Refinery Operating Costs.
AD-A012 809
A-7 ALOFT Economic Analysis Development Concept.
AD-A013 221
Life Cycle Cost Model.
AD-A013 369
Airport Surface Traffic Control Systems Development Analysis - Expanded.
AD-A013 579
A Mean Cost Approximation for Transportation Problems with Stochastic Demand.
AD-A013 711
Handbook for the Implementation of the Design to Cost Concept.
AD-A013 892
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AD-A014 108
An Approach for Measuring Benefit and Cost in Management and Information Systems.
AD-A014 209
Executive Summary of the Navy Weapon System Life-Cycle Cost Model (WSCOM).
AD-A014 319
Cost Estimating Study, an Abstract of Activities Performed in 1974.
AD-A014 345
The Static Theory of Transfer Pricing.
AD-A014 382
Overhaul/Rebuild Cost Study ARMCOM Items.
AD-A014 950
A Simulation of the Reparable Processing Procedures Applicable to Reliability Improvement Warranties.
AD-A016 038
A Model to Predict Final Cost Growth in a Weapon System Development Program.
AD-A016 040
Ammunition Cost Research: Medium-Bore Automatic Cannon Ammunition.
AD-A016 104
An Appraisal of the Short-Term Cost Results of a Selected Number of Air Force Should Cost Studies.
AD-A016 262
Cost/Schedule Control System Criteria: An Analysis of Managerial Utility.
AD-A016 270
Cost Prediction Models for Bringing Selected Air Force Logistics Command Facilities into Compliance with the Occupational Safety and Health Administration Standards.
AD-A015 344
Construction Equipment Cost Guide.
AD-A016 788
PwB Production Assembly Cost Guidelines (U).
AD-A016 962
Equilibrium Analysis of Effects of a Price Change of an Input Factor in the Context of Input-Output System.
AD-A017 540
First Destination Transportation Cost for Ammunition.
AD-A017 563
A Difference Equation Approach to the Optimal Control of a Multiclass Queue with Discounted Costs.
AD-A017 658
Development of RMS Cost Model and Demonstration of Alternative OH-58 Maintenance Scenarios.
AD-A017 760
RMS Cost Model User's Manual.
AD-A017 761
An Approach to Point of Sale System Acquisition Cost-Benefit Analysis.
AD-A018 308
Deadline Cost Model Study.
AD-A018 624
Proceedings of the Annual Department of Defense Cost Analysis Symposium (9th) Held at Airlie, Virginia on 22-25 September 1974 and Hosted by the Comptroller of the Air Force.
AD-A019 185
Military Cost Analysis in the FCRCs (Federal Contract Research Centers) - 1950-1975.
AD-A019 701
Risk Analysis of the US Army 155mm Cannon-Launched Guided Projectile Program.
AD-A019 932
A Hierarchical Approach to Production Planning.
AD-A019 947
Some Results on An 'Income Fluctuation Problem'.
AD-A020 289
Workload Analysis of a Military Repair Depot.
AD-A020 363
Reliability Acquisition Cost Study (II).
AD-A020 457
Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model. Phase I.
AD-A021 075
Winter Rate Study for Great Lakes-St. Lawrence Seaway System. Volume I.
AD-A021 210
Evaluation of F-15 Operations and Maintenance Costs Based on Analysis of Category II Test Program Maintenance Data.
AD-A021 258
Inventory Costs at US Army Materiel Command Depots.

AD-A021 717
The Deterioration of Pension Plan Conditions in Large Corporations: The Need for More Extensive Disclosure.
AD-A021 944
Cost Considerations in Policy Analysis.
AD-A022 191
Automatic Testing, A Tool for Improving Fleet Readiness.
AD-A022 307
Marginal Cost Factors for Surface Combatant Ships.
AD-A022 311
Navy Medical Care Study. Planning and Programming. Appendices.
AD-A022 787
Navy Medical Care Study: Planning and Programming.
AD-A022 788
Navy Medical Care Study: Alternatives to a Physician Shortfall.
AD-A022 789
Privacy Protection in Databanks: Principles and Costs.
AD-A023 406
Performance/Cost Evaluation of Pipelined Cordic Function Units.
AD-A023 442
An Evaluation of Material Cost Escalation Impact on Proposals at Boeing Wichita.
AD-A023 530
Industrialized Building Construction Time/Cost Model - First Quarter FY 76 Results.
AD-A023 750
LCC Analysis of Flight Recorder for F-4 Wild Weasel Aircraft.
AD-A023 830
Reducing Support Costs and Improving Reliabilities/Availabiliti es of Air Force Aircraft Equipment.
AD-A023 835
On High Support Costs and Poor Reliabilities in Air Force Aircraft Equipments.
AD-A023 836
Data Storage Decisions for Large Data Bases.
AD-A023 874
General Guidance for Cost Analysis of Commercial and Industrial-Type Real Property Maintenance Activities.
AD-A024 140
Air Force Central Supply and Maintenance Cost Data Base FYs 1965-1974.
AD-A024 251
Applications of Manufacturing Cost Analysis and Prediction System to the Production of the M13 Tracer.
AD-A025 019
A Regression Model Predicting Part Costs Machined by Numerically Controlled and Conventional Machinery.
AD-A025 133
Environmental Effects on Maintenance Costs for Aircraft Equipment.
AD-A025 801
A-7 ALOFT Life-Cycle Cost and Measures of Effectiveness Models.
AD-A026 206
A Preliminary Cost Analysis of the Communications Processor for the F-15 Joint Tactical Information Distribution System.
AD-A027 365
Cost/Schedule Uncertainty Analysis of the XM1/Alternative Armament Programs.
AD-A027 402
The Opportunity Cost of the Nonmonetary Advantages of the Soviet Military R and D Effort.
AD-A028 088
An Analysis of the Inflationary Effects on Inventory Systems.
AD-A028 268
A Round-Trip Location Problem on a Tree Graph.
AD-A028 666
A Study to Develop Management Indices for the Chief of Naval Education and Training. Phase II - Capital Resource Indices.
AD-A029 195
Cost of Ownership Handbook.
AD-A029 495
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Army Force Planning Cost Handbook.
AD-A030 099
The Effects of Developmental Software on the Acquisition Management of Aeronautical Computer systems.
AD-A030 217
Review of Permanent Change of Station Travel Entitlements.
AD-A030 348
Consolidation of RPMA at Fayetteville, NC. Volume II. Summary Cost Analysis for Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 518
Consolidation of RPMA at Fayetteville, NC. Volume III. Cost Analysis Support and Backup Data for the Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 519
Optimal Control of the M/G/1 Queueing System with Removable Server-Linear and Non-Linear Holding Cost Function.
AD-A030 646
A Theory for Semi-Markov Decision Processes with Unbounded Costs and Its Application to the Optimal Control of Queueing Systems.
AD-A030 649
The Use of Statistical Sampling in Contract Pricing.
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A Comparative Analysis of the Relationships of Total Distribution Costs between Airlift and Sealift.
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Visibility and Management of

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Engine Systems Ownership Cost Reduction - Aircraft Propulsion 'Subsystems Integration (APSI).
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Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (6th) Held at St. Petersburg, Florida, on '25-27 February 1975.
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Permutation Type Schedules on a 'Single Machine under Cost Criteria.
AD-A032 071
Health Care Cost Sharing and 'Cost Containment,
AD-A032 220
A Logistics Support Cost Analysis of the Advanced Aerial 'Refueling Boom.
AD-A032 274
Consolidation of RPMA at Fayetteville, N. C. Volume I. Executive Summary for the Study of Consolidation of RPMA in the 'Fayetteville, N. C. Area.
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Break-Even Analysis of VADS, 'M163, Antenna Protection Device.
AD-A033 926
Commercial Holding Cost Differential between Dry Storage and Controlled Cold Storage for 'Meal, Combat, Individual (MCI).
AD-A034 192
Lower Bounds for a Quadratic 'Cost Functional.
AD-A034 930
Army Life Cycle Cost Model; 'Programmer's Guide. Volume II.
AD-A035 168
Requirements and Alternative Designs for Automating the Publication of NAVSEA MOTD at the NSDSA.
AD-A036 122
Study of the Effects of Increased Costs on Corporate and Business Flying. Volume I. Executive Summary.
AD-A036 363
Study of the Effects of Increased Costs on Corporate and Business Flying. Volume II. Research Methodology.
AD-A036 364
Study of the Effects of Increased Costs on Corporate and Business Flying. Volume III. Planning Guide.
AD-A036 365
Study of the Effects of Increased Costs on Corporate and Business Flying. Volume IV. Data Base.
AD-A036 366
ELF Communications SEAFARER Program. Site Survey, Michigan Region. Antenna Construction Cost Factors and Installation Plan.
AD-A036 405
Wastewater Engineering and Management Plan for Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA Study. Technical Data Volume 15. Recommended Plan and Implementation Program.
AD-A036 814
Binghamton Wastewater Management Study. Design and Cost Appendix.
AD-A036 830
Airport Surface Traffic Control Tags Planning Alternatives and Cost/Benefit Analysis.
AD-A037 790
The Move Towards Marginal Cost Pricing in Electricity.
AD-A037 920
OSCR System Applications Analysis.
AD-A038 477
United States General Aviation.
AD-A038 539
Life Cycle Analysis of Aircraft Turbine Engines: Executive Summary.
AD-A039 062
Aircraft System Operating and Support Costs: Guidelines for Analysis.
AD-A039 369
LOCAM 5. Volume II. Programmer/Users Manual.
AD-A039 474
Cost/Schedule Uncertainty Analysis for VADS Short-Range (RAM) Product Improvement Program.
AD-A039 813
Central Flow Control Automation Program Cost-Benefit Analysis.
AD-A040 060
Fuel Cost Escalation Study.
AD-A040 209
Sensitivity of Army Helicopter Operating and Support Costs to Changes in Design and Logistic Parameters.
AD-A040 353
Military Construction Supervision and Administration Cost Forecasts.
AD-A040 742
Southeastern Michigan Wastewater Management Survey Scope Study. Design and Cost Appendix.
AD-A041 115
Consolidation of RPMA at Fayetteville, NC. Volume IV. General Procedures for Conducting RPMA Consolidation Studies.
AD-A041 331
The Art of Cost-Benefit Analysis.
AD-A041 526
Interactive Computer Graphics: A Responsive Planning and Control Tool for DoD Program Management.
AD-A041 798
Coal Gasification Study.
AD-A041 860
Water and Related Land Resources. Management Study. Volume V. Supporting Technical Reports Appendix. Annex F. Missouri Riverfront Corridor Land Use Plan and Program.

AD-A041 933
Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex H. Regional Wastewater Management.

AD-A041 935
Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex K. Regional Water Supply. Appendix.

AD-A041 937
Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 1. Cedar River Basin.

AD-A042 166
Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 2. Green River Basin.

AD-A042 167
Coal Gasification Study Handbook.

AD-A042 385
Corrosion Costs of Air Force and Army Facilities and Construction of a Cost Prediction Model.

AD-A042 828
Acquiring Affordable Weapons Systems.

AD-A042 777
The Impact of Independent Cost Analyses on DOD Acquisition Management.

AD-A042 780
Cost Effectiveness Analysis of Bonuses and Reenlistment Policies (CEABREP).

AD-A042 904
Initial Operational Support: An Alternate Approach.

AD-A042 933
Using Cost Analysis to Break the Overrun Habit.

AD-A042 935
Logistic Support Cost Commitments for Life Cycle Cost Reduction.

AD-A043 034
The TPR Process and Impact of Fluctuations.

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Academic Attrition from Navy Technical Training Class 'A' School Courses.

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Weapon System Costing Methodology Improved Structural Cost Analysis.

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Production of Pipes and Assembly of Pipelines and Pipe Systems on Ships (Izgotovleniye i Montazh Sudovykh Truboprovodov i Sistem).

AD-A044 295
Optimal Selling When the Price Distribution is Unknown.

AD-A044 897
An Attitudinal Study of the Home Market for Solar Devices.

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Plant Equipment Package (PEP) Modernization Program. Volume 7. PEP Economic model.

AD-A045 503
Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties.

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Reduction of the Cost of Feedback in Systems with Large Parameter Uncertainties.

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Analysts' Manual for the Multiple-Bid Evaluation Model for Procurement Planning and Placement.

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Maintenance Expenditure Limits (MEL) Tires.

AD-A046 621
An Analysis of Major Training Area Operations in V Corps, US Army Europe.

AD-A047 126
Aircraft Maintenance Cost Elements.

AD-A047 640
A Cost Analysis of Graduate Education in Logistics Management.

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USAF Military Personnel Costing: Problems and Approaches.

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Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft).

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A Computerized Log for Systems and Cost Analysis Division Cost Estimate Control Data Center (CECDC) Validation Activity.

AD-A049 976
Trends in the Real Prices of Selected Construction Products and Materials. 1946-1976.

AD-A053 228
Evaluation of Purchase Cost Factors.

AD-A055 665
Avionics Cost Development for Civil Application of Global Positioning System.

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Ramjet Cost Estimating Handbook.

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Dynamic Theory of Production Correspondences. Part III.

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Approximation Methods for the Minimum Average Cost Per Unit Time Problem with a Diffusion Model.

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Analysis and Computation of a Base Labor Rate for Cost Models of Major Weapon System Acquisition.

AD-A059 184
The Labor Market of the United States Shipbuilding Industry. 1960-1970.

AD-A059 224
Development of a Field Labor Rate for Army Aviation Maintenance.
AD-A059 290
A Cost Analysis on Procuring Improved Technical Order Data for the F-15 Weapon System.
AD-A059 571
Army Club Management Study 1977. Volume II. Appendices.
AD-A059 767
Historical Escalation of Operation and Maintenance Costs for Field Generator Sets.
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Acquisition Costing in the Federal Government.
AD-A060 346
Identification and Definition of the Management Cost Elements for Contractor Furnished Equipment and Government Furnished Equipment.
AD-A061 300
Economic Analysis of the Rotary Kiln and Fluidized Bed P and E Incinerators.
AD-A062 298
Design of Solar Heating and Cooling Systems.
AD-A062 719
An Overview of the Cost/Benefit Analyses for the Automated Technical Control (ATEC).
AD-A063 382
Documentation of Analytical Services Provided in Support of Navy Enlisted Personnel Projections for POM-80.
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Applications of Decision Analysis to the U. S. Army Affordability Study.
AD-A064 442
A Proposed Aviation Energy Conservation Program for the National Aviation System. Volume II. The Intermediate and Long Run, 1979-1990.
AD-A064 468
Sources and Nature of Cost Analysis Data Base Reference Manual.
AD-A065 864
Avionics Standardization Potential Analysis.
AD-A066 138
The Value of the Non-Atomic Game Arising from a Rate-Setting Application and Related Problems.
AD-A066 729
Costs and Benefits of Aquatic Weed Control.
AD-A067 424
Transportation Costs as a Consideration in Air Force Contracts.
AD-A067 949
Cost Analysis of Air Force On-the-Job Training: Development and Demonstration of a Methodology.
AD-A069 791
Cost of Irradiating Bacon and the Associated Energy Savings.
AD-A069 968
A Cost Management Control Procedure for Initial Training in Surface Ship Acquisition Programs.
AD-A070 037
Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume I.
AD-A072 348
Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II.
AD-A072 349
Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II. Appendix I.
AD-A072 350
Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II. Appendix II.
AD-A072 351
Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume III.
AD-A072 352
A Normative Cost-Benefit Analysis of the Systematic Design Methodology.
AD-A072 355
Manufacturing Cost Data Collection and Analysis for Composite Production Hardware.
AD-A073 507
Demonstration Model System. Volume I. Mathematical Models.
AD-A073 968
Demonstration Model System. Volume II. The Naval Electronics Design Cost Model (NEDCOM): Program Manual.
AD-A073 969
Demonstration Model System. Volume III. NEDCOM User's Guide.
AD-A073 970
Demonstration Model System. Volume IV. Slide-Rule Model System Program Manual.
AD-A073 971
Demonstration Model System. Volume V. Slide-Rule Model System User's Guide.
AD-A073 972
Marginal Cost Factors for High Performance Ships and their Impact on Subsystem Design.
AD-A075 530
Development of Improved Criteria for Determining the Need for Pricing Staff Action.
AD-A075 582
Cooperative Logistics Supply Support Arrangement Pricing Relationships Between Programmed and Nonprogrammed Requisitions.
AD-A075 587
SATCOM 'EHF' Airborne Terminal Availability to Cost Analysis Demonstration.
AD-A076 163
A Cost Model for Air Force

Institute of Technology Programs.
AD-A076 924
US Army, Air Force, and Navy RPMA Consolidation in Panama. A cost-Benefit Analysis. Volume I.
AD-A077 165
US Army, Air Force, and Navy RPMA Consolidation in Panama. A cost-Benefit Analysis. Volume II.
AD-A077 166
Analysis of the Cost of Variable Workloads on Shipbuilding.
AD-A077 331
Manufacturing Technology Cost Drivers Study of Aircraft Rework, Overhaul and Remanufacture Processes. Volume I.
AD-A078 004
Costs and Decision-Making Processes in Non-Profit, General-Purpose Hospitals.
AD-A078 155
The Effect of Price Competition on Weapon System Acquisition Costs.
AD-A078 232
Defense Use of Military Personnel In Industrial Facilities. Largely Unnecessary and Very Expensive.
AD-A079 580
The Air Force Should Recover Excess Costs of Prior F-15 Contracts and Take Action to Save Costs on Future F-15 Contracts.
AD-A079 804
Cost Analysis of a Helicopter Transmission and Drive Train.
AD-A080 518
Briefing on Manufacturing Technology (MT) Cost Driver Analysis Program to Naval Air Systems Command, Department of the Navy, Washington, D.C.,
AD-A080 962
Incremental Costing Model for Use with the CNET Per Capita Course Costing Data Base: System I.
AD-A081 759
Some Fundamental Properties of Governmental Expenditure Patterns--Theory and Evidence Based on Military Expenditures.
AD-A081 999

ARMY TRAINING
Military Occupational Specialty Training Cost Handbook (MOSB). Volume I. Enlisted MOS's.
AD- 920 773
Military Occupational Specialty Training Cost Handbook (MOSB). Volume II. Commissioned and Warrant Officers MOS's.
AD- 920 774

RADIO EQUIPMENT
VHF-FM Portion of the Single Channel Ground and Airborne Radio Subsystem Concept Formulation Package. Appendix IV. Cost and Operational Effectiveness Analysis.
AD-B009 251

SHORT TAKEOFF AIRCRAFT
Conceptual Design Studies of Composite AMST.
AD-B002 859

STATE OF THE ART
Life Cycle Cost/System Effectiveness Evaluation and Criteria.
AD- 916 001

*COST BENEFITS
An Approach to Point of Sale System Acquisition Cost-Benefit Analysis.
AD-A018 308
Comments on LMFBR Cost-Benefit Analysis.
AD-A022 296
A Case Study of the Combined Arms Combat Developments Activity. Cost Consideration in Decisionmaking Regarding Combat Development Studies.
AD-A029 670
NSW GCOS Connection.
AD-A030 508
The Feasibility of a Geographic Pay Supplement for CONUS Military Personnel.
AD-A032 797
Estimation of UG3RD Capacity Impacts.
AD-A037 079
Cost Benefit Analysis and the National Aviation System - A Guide.
AD-A037 434
Airport Surface Traffic Control Tags Planning Alternatives and Cost/Benefit Analysis.
AD-A037 790
Cost and Retention Impacts of the Navy's Conus Recreation Program.
AD-A038 654
Foreign Military Sales (FMS): Costs, Benefits, and a New Approach.
AD-A039 922
The Art of Cost-Benefit Analysis.
AD-A041 526
Summary of Cost-Benefit Study Results for Navy Alcoholism Rehabilitation Programs.
AD-A042 795
Remoteness-Compensation Methodology for Benefit/Cost Establishment and Discontinuance Criteria.
AD-A043 836
Training Developments: A Means to Reduce Life Cycle Costs.
AD-A045 447
Evaluation of Environmental and Economic Benefits through Use of Synthetic Motor Oils.
AD-A046 277
Maintenance Expenditure Limits (MEL) Tires.
AD-A046 621
Preliminary Limited Surveillance Radar (LSR) Cost/Benefit Analysis.
AD-A046 829
A Methodology for Estimating the Economic Benefits of an Aircraft Engine Warranty.
AD-A047 282

*COST EFFECTIVENESS

Intelligence System Designer's Memory Evaluation Program.
AD- 771 793
Computer Network Usage-Cost-Benefit Analysis-I.
AD- 774 740
Auditing Cost-Effectiveness Analyses of Technological Changes.
AD- 776 539
Data Management Systems for Structured Information Retrieval.
AD- 776 808
The Affect of Wipics on the F4-E to N Conversion Program.
AD- 777 256
Some Results from Applying a Cost-Effectiveness Model for Evaluating Aviation Weather Dissemination Techniques.
AD- 777 441
Cost-Effectiveness Model I. Prototype Selection and Trade-Office Analyses.
AD- 781 947
Slow Descent Recovery System Technology Study and Data Program.
AD- 783 268
A Generalized Analysis of the Performance of a Variety of Drive Systems for High Reynolds Number, Transonic, Wind Tunnels.
AD- 784 883
Studies in Support of the AMARC: Review of Cost Effectiveness Analysis. Volume 1.
AD- 785 894
Cost and Efficiency in Military Specialty Training.
AD- 786 652
Criteria for Evaluating the Cost Effectiveness of Optical Character Recognition Equipment in Base Telecommunications Centers.
AD- 787 197
Cost Effectiveness Program Plan for Joint Tactical Communications, Volume III. Life Cycle Costing.
AD- 787 533
A New Methodology for Analytical Cost Effectiveness Comparisons of Air Defense Systems.

AD-A000 823
An Econometric Analysis of Volunteer Enlistments of Service and Cost Effectiveness Comparison of Service Incentive Programs.
AD-A001 033
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume II. System Effectiveness.
AD-A003 279
A Cost-Effectiveness Model. Choice through Preferences.
AD-A006 205
A Logistic/Cost-Effectiveness Model for Flares.
AD-A007 121
Analysis of Proposed Stock Range Rules.
AD-A009 120
The Requirements Determination Process for Naval Weapon Systems: An Organizational Analysis.
AD-A009 971
A-7 ALOFT Economic Analysis Development Concept.
AD-A013 221
Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis.
AD-A013 477
Cost-Effectiveness Comparison of the Retubed M114 and XM198 Cannon Systems.
AD-A013 521
The Static Theory of Transfer Pricing.
AD-A014 382
Periodic Replacement with Minimal Repair at Failure and Adjustment Costs.
AD-A014 385
The Impact of Ship Design Margins.
AD-A015 638
RMAC Analysis of CH-47 Helicopter.
AD-A016 117
Measurement of Technological Innovation by Firms.
AD-A021 712
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume IA. Management Overview.
AD-A021 740
A Critique of Cost-Effectiveness.
AD-A022 195
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix E. Transportation Cost of Spares and Repair Parts.
AD-A023 223
Opportunities for Cost Reductions in the Testing of New Missile Systems.
AD-A024 014
The Training Division: A Good Investment.
AD-A024 389
Investigation of the Cost/Effectiveness of Numerical Control Manufacture of Quick Reaction Spare Parts.
AD-A024 749
An Economic Analysis of Lay-Offs.
AD-A026 386
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle costing. Appendix G. Cost Uncertainty Analysis Model.
AD-A027 666
Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary.
AD-A028 374
Industrial Management Survey of AFEES Operations. Volume 2. Findings. Conclusions. and Recommendations.
AD-A028 375
Efficiency Indicators for Education and Training.
AD-A028 854
Cost Effectiveness of Alternative Noise Reduction Methods for Construction of Family Housing.
AD-A028 922
Cost Effective Solid State Transmitter Study.

AD-A029 965
Training Resource Classifications: Direct-Indirect and Fixed-Variable Cost Categories.
AD-A029 179
Hard Data Sources Concerning More Cost Effective Maintenance.
AD-A029 198
Cost Effective ILS. A Case Study and Evaluation.
AD-A029 482
Scheduled Maintenance Policies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program.
AD-A030 146
The Accuracy of Air Force Weapon System Cost Estimates as a Function of Time.
AD-A030 240
The Feasibility of a Fare Bus System for Work-Commuting at Wright-Patterson AFB, Ohio.
AD-A030 296
Consolidation of RPMA at Fayetteville, NC. Volume II. Summary Cost Analysis for Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 518
Consolidation of RPMA at Fayetteville, NC. Volume III. Cost Analysis Support and Backup Data for the Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 519
Cost and Training Effectiveness Analysis (CTEA) of the CH-47 Flight Simulator (CH47FS).
AD-A033 97?
Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator.
AD-A036 159
Introduction to Multiple State Multiple Action Decision Theory and Its Relation to Mixing Structures.
AD-A036 371
Simulators for Training and Profit.
AD-A038 190
Evaluation of Polypropylene and Polyethylene Cushion Wrap Materials.
AD-A039 089
Retail Stockage Policy under Budget Constraints.
AD-A041 308
Guidelines for Attracting Private Capital to Corps of Engineers Projects.
AD-A041 571
Product Improvement Program Evaluation.
AD-A042 134
Special Termination Costs Clause, ASPR 8-712.
AD-A042 938
A Compilation of Methodological Problems Confronting the Air Force in the Fields of Economics and Management. Phase I.
AD-A043 360
Analysis of the Cost Center Performance Measurement System.
AD-A044 099
A Study of Opportunistic Replacement Tactics for Modular Jet Engine Management.
AD-A044 184
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume I. Study Synopsis.
AD-A045 162
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume II. A Candidate Electronics Manufacturing Technology Plan.
AD-A045 163
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume III. Appendices.
AD-A045 164
A Study of the Cost-Effectiveness of Inventory Management Policies Based on Average Requisition Size.
AD-A046 249
Computer Program for Design and Performance Analysis of Navigation-Aid Power Systems Program Documentation. Volume II - User's Manual.
AD-A047 356
The RDT and E Program of the DoD on Training. FY 1977.
AD-A047 391
Cost Effective Analysis.
AD-A052 400
The AGOR-21 Class Oceanographic Research Ships: An Acquisition Analysis.
AD-A053 872
On the Benefit-to-Cost Ratio of Base-Level Stocking Decisions for Low Demand Items.
AD-A053 953
Some Considerations in Analyzing Training Costs and Job Performance.
AD-A054 954
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing.
AD-A055 147
A Consideration of Army Training Device Proficiency Assessment Capabilities.
AD-A056 191
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume V. TRI-TAC Stylized Nodal Descriptions.
AD-A056 907
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix F. Computer Models for LCC.
AD-A056 981
Methods for Estimating Effectiveness and Cost of Civil Defense Program Elements.
AD-A057 343
Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume II.
AD-A058 228

Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume I.
AD-A058 272
Production Engineering Program to Develop Improved Mass-Production Process for M42/M46 Grenade Bodies.
AD-A058 278
Optimizing the Cost Effectiveness of Military Corrections: An Assessment of Program Evaluations and Related Data.
AD-A058 575
An Analysis of Forward Pricing Rates and Their Effectiveness in Indirect Cost Management.
AD-A059 307
AMOSIST Program Field Evaluation Physician Savings and Cost Effectiveness.
AD-A061 146
Cost Benefit Analysis of the Department of Defense Family Housing Program.
AD-A061 421
The Mission Trade-Off Methodology (MTOM) Model: User's Manual.
AD-A062 947
Cost-Benefit Analysis Applied to the Program Objectives Memorandum (POM).
AD-A063 619
Preliminary Criteria for Optimizing the Cost Effectiveness of System Improvements to Enhance Survivability.
AD-A064 115
A Cost-Benefit Analysis of the Proposed Consolidation of A'l Navy and Marine A6-E Fleet Replacement Training Squadrons.
AD-A064 996
Reliability Trade-Offs for Unit Production Cost.
AD-A065 643
Avionics Cost Development For Use of Loran-C Navigation Systems By Low Performance General-Aviation Aircraft.
AD-A068 268
Cost-Performance Relationships for Use with the Uniform Chart of Accounts for Militart Medical Treatment Facilities.
AD-A068 577
Cost-Effectiveness of Computer-Based Instruction in Military Training.
AD-A073 400
The Value of the Base Level Industrial Engineer.
AD-A074 394
Behavioral Aspects of Cost-Benefit Analysis.
AD-A075 099
COEFUV: A Computer Implementation of a Generalized Unmanned Vehicle Cost Model.
AD-A079 038
Cost-Effectiveness Measures of Replenishment Strategies for Systems of Orbital Spacecraft.
AD-A081 859
The Non Candidate Constraint Method for Reducing the Size of a Linear Program.
AD-A082 423

ARMY PROCUREMENT
Guidelines for Cost Estimation by Analogy.
AD- 763 878

DEPARTMENT OF DEFENSE
A Case Study of the Usefulness of the Cost/Schedule Control System Criteria (C/SCSC).
AD- 923 129

MANAGEMENT PLANNING AND CONTROL
Life Cycle Cost/System Effectiveness Evaluation and Criteria.
AD- 916 001

NAVAL PERSONNEL
Facilities Maintenance Demonstration Study.
AD-B009 681

RADIO EQUIPMENT
VHF-FM Portion of the Single Channel Ground and Airborne Radio Subsystem Concept Formulation Package. Appendix IV. Cost and Operational Effectiveness Analysis.
AD-B009 251

*COST ESTIMATES
An Extension of Cost Estimating Relationships for Airframes of Remotely Piloted Vehicles.
AD-A003 352
Cost Estimating Relationships for Procurement Costs of Airborne Digital Computers and Inertial Measurement Units for Use in Remotely Piloted Vehicles.
AD-A003 353
Joint Generalized Least Squares Applied to Cost Estimation for Fighter Aircraft.
AD-A003 354
Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume II. Supporting Design Synthesis Programs.
AD-A005 426
Cost-Estimating Relationships for Predicting Life-Cycle Costs of Inertial Measurement Unit Maintenance.
AD-A006 344
A Product Improved Method for Developing a Program Management Office Estimated Cost at Completion.
AD-A007 125
Production Rate and Production Cost.
AD-A009 074
Managing Cost Overrun Engineering Change Proposals.
AD-A009 183
The Concept of Life Cycle Costing Applied to the MICV project.
AD-A009 189
Cost Estimating Relationships for Naval Surface Ship Electronic

Warfare Equipment.
AD-A009 576
Users Manual: Forecast of Schedule/Cost Status Utilizing Cost Performance Reports of the Cost/Schedule Control Systems Criteria: A Bayesian Approach (FORTRAN IV).
AD-A011 401
The Application and Utility of Independent Government Cost Estimates.
AD-A012 795
Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A013 258
Life Cycle Cost Model.
AD-A013 369
Life Cycle Time and Cost Estimates for Squad Automatic Weapon System Candidates.
AD-A013 514
Cost-Estimating Relationships Using Linear, Log-linear and Non-linear Regression.
AD-A013 928
Cost Estimating Study, an Abstract of Activities Performed in 1974.
AD-A014 349
Analysis of Available Life Cycle Cost Models and Actions Required to Increase Future Model Applications.
AD-A014 772
Overhaul/Rebuild Cost Study ARMCOM Items.
AD-A014 950
Acquisition Cost Estimating Using Simulation.
AD-A015 624
Cost Prediction Models for Bringing Selected Air Force Logistics Command Facilities into Compliance with the Occupational Safety and Health Administration Standards.
AD-A016 344
Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume I. Technical Volume.
AD-A016 408
Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume II. Estimating Handbook and User's Manual. Part I.
AD-A016 409
Weapon System Costing Methodology for Aircraft Airframes and Basic Structures Volume II - Estimating Handbook and User's Manual, Part II.
AD-A016 410
Independent Cost Estimate of the GAU-8 Aluminum Cartridge Case.
AD-A017 222
Capital/Labor Substitution and Factor Price Ratios in a Military Service: A Study of Defense Resource Allocation.
AD-A019 190
Microeconomic Theory Applied to Parametric Cost Estimation of Aircraft Airframes.
AD-A020 210
Aircraft Airframe Cost Estimation by the Application of Joint Generalized Least Squares.
AD-A020 228
A Design-Aid and Cost Estimate Model for Suppressive Shielding Structures.
AD-A020 508
Historical Inflation Program.
AD-A020 669
Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model.
AD-A021 083
Evaluation of F-16 Subsystem Options Through the Use of Mission Completion Success Probability and Designing to System Performance/Cost Models.
AD-A021 263
Army Life Cycle Cost Model; User's Guide. Volume I.
AD-A021 930
The A-7 ALOFT Cost Model: A Study of High Technology Cost Estimating.
AD-A021 913
Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A022 086
Naval Reserve Annual Operating Costs.
AD-A022 115
Computer Program Input Instructions for Cost Performance Forecasting Model.
AD-A022 792
A Cost Performance Forecasting Concept and Model.
AD-A022 793
Historical and Forecasted Aeronautical Cost Indices.
AD-A022 794
Modified Cost Estimating Model for 20mm - 40mm Automatic Cannon Ammunition Initial Production Facilities.
AD-A024 556
A Computer Model for Estimating Development and Procurement Costs of Aircraft (DAPCA-III).
AD-A025 276
Costs of the Next Due Base-Level Inspection during a Depot Visit.
AD-A026 299
Economic Escalation and the Military Program Manager.
AD-A026 557
The U.S. Navy Foreign Military Sales Program.
AD-A026 559
Useful Life Cycle Cost Estimates for Defense Systems - An Evaluation.
AD-A026 560
Life Cycle Costing and the Effect of Ownership Costs.
AD-A027 288
A Study of Variability of Construction Cost Estimates.
AD-A028 019
Design to Cost of Advanced Lightweight Torpedo.
AD-A028 407
Design to Cost Policy Versus Implementation.
AD-A028 859

The Dilemma of Uncertainties Associated with Cost Estimating in the Project Management Office.
AD-A029 274
Dependent (Conditional) Probability Aspects of Cost Estimating.
AD-A029 318
Ammunition Cost Research Study.
AD-A029 330
Cost of Ownership Handbook.
AD-A029 495
A Review of Software Cost Estimation Methods.
AD-A029 748
A Historical Analysis of Total Package Procurement, Life Cycle Costing, and Design to Cost.
AD-A030 141
An Exploratory Study of Software Cost Estimating at the Electronic Systems Division.
AD-A030 162
A Taxonomy of Cost Estimating Characteristics as Applied to an Aircraft Replenishment Spares Model.
AD-A030 239
Aircraft Airframe Cost Estimation Utilizing a Components of Variance Model.
AD-A032 627
Producibility Engineering and Planning (PEP).
AD-A035 671
Computer Aided Cost Estimation for Production Engineers.
AD-A035 823
US Army Total Risk Assessing Cost Estimate (TRACE) Guidelines.
AD-A036 327
Foreign Military Sales. Construction of a Replacement Price (Some Considerations, Problems and Potential Solutions).
AD-A037 384
Bupers MPN Expenditure Estimating.
AD-A037 391
Aircraft System Operating and Support Costs: Guidelines for Analysis.
AD-A039 369
Parametric Cost Estimating.
AD-A039 563
Computer-Aided Final Design Cost Estimating System Overview.
AD-A040 119
Implementation of Risk Assessment in the Total Risk Assessing Cost Estimate (Trace).
AD-A041 467
Advanced Composite Cost Estimating Manual. Volume I.
AD-A041 495
Advanced Composite Cost Estimating Manual. Volume II. Appendix.
AD-A041 496
Advanced Composite Cost Estimating Manual. Volume II.
AD-A041 497
Combat Vehicle System Operating and Support Costs: Guidelines for Analysis.
AD-A041 508
Software Cost Estimation Study. Volume I. Study Results.
AD-A042 264
Introduction to the USAF Total Force Cost Model.
AD-A042 460
Training Package: Foreign Military Sales (FMS) Agreements (Planning and Costing).
AD-A042 771
Avionics Data for Cost Estimating.
AD-A043 265
Weapon System Costing Methodology Improved Structural Cost Analysis.
AD-A044 037
The Air Force Cost Estimating Process: The Agencies Involved and Estimating Techniques Used.
AD-A044 101
Bare Bones: A Method for Estimating Provisioning Budget Requirements in the Outyears.
AD-A044 508
Software Cost Estimation Study. Volume II. Guidelines for Improved Software Cost Estimating.
AD-A044 609
A General Technique for R and D Cost Forecasting.
AD-A046 105
Flight Test of a Composite Multi-Tubular Spar Main Rotor Blade on the AH-1G Helicopter. Volume II. Cost Estimates and Process Specifications.
AD-A046 279
A Preliminary Calibration of the RCA Price S Software Cost Estimation Model.
AD-A046 608
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Executive Summary.
AD-A046 976
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command.
AD-A046 977
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Appendices.
AD-A046 978
Development of Cost Estimating Relationships for Aircraft Jet Core-Engine Overhaul Costs.
AD-A047 667
A Quantitative Analysis of Estimating Accuracy in Software Development.
AD-A047 674
Construction-Site Noise Control Cost-Benefit Estimating Procedures.
AD-A051 737
Estimated Costs of Extended Low-Rate Airframe Production.
AD-A054 834
Ramjet Cost Estimating Handbook.
AD-A056 991
Case Study: FFG-7 Class Ship.
AD-A057 291
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume I.
AD-A059 164
An Analysis of Forward Pricing

Rates and Their Effectiveness in Indirect Cost Management.
AD-A059 307
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume 2.
AD-A059 516
Engineering and Design Cost/Rate Forecasting System. Volume II. User's Manual.
AD-A061 108
Engineering and Design Cost/Rate Forecasting System. Volume I. Model Development and Data Analysis.
AD-A061 127
Development of Cost Escalation Indexes for Operation and Maintenance Budget Categories.
AD-A061 817
Handbook for Estimating Conversion Costs of Large Business Programs.
AD-A065 145
Sources and Nature of Cost Analysis Data Base Reference Manual.
AD-A065 864
Naval Aircraft Operating and Support Cost-Estimating Model - FY77 Revision.
AD-A068 175
The Use of the Maurer Factor for Estimating the Cost of a Turbine Engine in the Early Stages of Development.
AD-A073 018
Evaluation of the Engineering Change Proposal Cost Evaluation Model.
AD-A073 067
Target Missile Airframe Costs.
AD-A073 314
Manufacturing Cost Data Collection and Analysis for Composite Production Hardware.
AD-A073 507
An Extension of Engine Weight Estimation Techniques to Compute Engine Production Cost.
AD-A074 454
Real Estate Cost Estimating Techniques for PL 91-646 Relocation Costs.
AD-A075 511
Application of a Bayesian Approach to Updating Airframe CERs.
AD-A077 064
An Investigation of Changes in Direct Labor Requirements Resulting from Changes in Avionics Producion Rate.
AD-A077 725
Predictive Operations and Maintenance Cost Model. Volume I.
AD-A078 052
Predictive Operations and Maintenance Cost Model. Volume II.
AD-A078 053
Pricing for U.S. Army Technical Assistance Field Teams (TAFT).
AD-A078 279
Aircraft Airframe Cost Estimation Using a Random Coefficients Model.
AD-A078 293
Statistical Risk Properties of the Logistic Support Cost Commitment.
AD-A080 196
Avionics Cost Development for Civil Application of Global Positioning System.
AD-A080 945

*COST MODELS
Competitive Prices. Dynamic Programming under Uncertainty. a Nonstationary Case.
AD-A028 243
Demonstration of a Logistics Support Cost Model for Stage III of the Digital European Backbone Program.
AD-A032 202
Life Cycle Management of Army Tactical Management Information Systems (TACMIS).
AD-A032 499
A Methodology for Estimating Jet Engine Costs Early in Weapon System Acquisition.
AD-A033 667
Army Life Cycle Cost Model: Programmer's Guide. Volume II.
AD-A035 168
Military Construction Engineering and Design Cost Forecasts.
AD-A035 262
Cost Optimizing System to Evaluate Reliability (COSTER).
AD-A038 761
An Operational Version of the Depot Purchased Equipment Maintenance Allocation Model (DPEM MODEL).
AD-A041 426
Software Cost Estimation Study. Volume I. Study Results.
AD-A042 264
A Computer Program for Tracking Cost/Schedule Control Systems Criteria.
AD-A042 314
Acquiring Affordable Weapons Systems.
AD-A042 777
An Identification and Characterization of Cost Models/Techniques used by the Air Force Logistics Command to Estimate Jet Engine Operation and Support Costs.
AD-A044 083
Army Life Cycle Cost Model for Tracked Vehicle Systems.
AD-A044 157
An Operating and Support Cost Model for Aircraft Carriers and Surface Combatants.
AD-A044 744
R. Q. Inventory Problem with unknown Mean Demand and Learning (A Sequel).
AD-A045 210
Conventional AS Load List Study.
AD-A045 461
Strategic Implications of the Experience Curve Effect for Avionics Acquisitions by the Department of Defense.
AD-A046 006

A Critique of Aircraft Airframe Cost Models.
AD-A047 181
Naval Aircraft Operating and Support Cost Model - FY76 Revision.
AD-A053 180
Subervision and Administration Cost/Rate Forecasting System. Volume I. User's Manual.
AD-A053 229
AFSATCOM Life Cycle Cost Model.
AD-A056 102
Digital Avionics Information System (DAIS). Volume I. Reliability and Maintainability Model.
AD-A056 530
SEEK IGLOO Life Cycle Cost Model. Volume I. Cost Element Equations.
AD-A057 444
User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume II. User's Manual and Program Documentation for the User Delay Cost Model.
AD-A058 984
User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume I. Model Formulation and Demonstration.
AD-A059 007
User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume III. User's Manual and Program Documentation for the Facilities Maintenance Cost Model.
AD-A059 008
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume I.
AD-A059 164
Analysis and Computation of a Base Labor Rate for Cost Models of Major Weapon System Acquisition.
AD-A059 184
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume 2.
AD-A059 516
Project Scheduling with Discontinuous Piecewise Convex Activity Cost Functions.
AD-A060 500
Computation of the Optimal Average Cost Policy for the Two Terminal Shuttle.
AD-A060 912
An Appraisal of Models Used in Life Cycle Cost Estimation for USAF Aircraft Systems.
AD-A064 333
The Production Function and Airframe Cost Estimation.
AD-A065 570
Navy Air-Launched Missile Operating and Support Cost Estimating Model.
AD-A069 527
Validation of the Detroit Diesel Allison Logistic Support Cost Model (Program OS 590).
AD-A072 670
The Use of the Maurer Factor for Estimating the Cost of a Turbine Engine in the Early Stages of Development.
AD-A073 018
Avionics Installation (AVSTALL) Cost Model for User Equipment of NAVSTAR Global Positioning System.
AD-A073 681
Optimal Project Compression with Due-Dated Events.
AD-A073 781
Demonstration Model System. Volume I. Mathematical Models.
AD-A073 968
Demonstration Model System. Volume II. The Naval Electronics Design Cost Model (NEDCOM): Program Manual.
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Demonstration Model System. Volume III. NEDCOM User's Guide.
AD-A073 970
Demonstration Model System. Volume IV. Slide-Rule Model System Program Manual.
AD-A073 971
Demonstration Model System. Volume V. Slide-Rule Model System User's Guide.
AD-A073 972
An Operating and Support Cost Model for Avionics Automatic Test Equipment.
AD-A075 586
A Cost Model for Air Force Institute of Technology Programs.
AD-A076 924
A Study of Two Avionics Life Cycle Cost Models and Their Applicability in the Communications-Electronics-Meteorological Environment.
AD-A076 581
Predictive Operations and Maintenance Cost Model. Volume I.
AD-A078 052
Predictive Operations and Maintenance Cost Model. Volume II.
AD-A078 053
Venture Evaluation and Review Technique (VERT). Users'/Analysts' Manual.
AD-A078 656
Application of the RCA PRICE-S software Cost Estimation Model to Air Force Avionics Laboratory Programs. Revision.
AD-A078 793
Modeling Navy Ship Acquisition.
AD-A080 089
Incremental Costing Model for Use with the CNET Per Capita Course Costing Data Base: System I.
AD-A081 759

•COST OVERRUNS
Analysis of the Effectiveness of the Preproduction Evaluation Contract in Preventing Cost Overruns.
AD-A024 818
Cost of Terminating Contracts Study (COTCOS-I).
AD-A037 408
Using Cost Analysis to Break the Overrun Habit.

AD-A042 935
The Pentagon 'Four-Step'.
AD-A053 963
The Air Force Should Recover Excess Costs of Prior F-15 Contracts and Take Action to Save Costs on Future F-15 Contracts.
AD-A079 834

•COSTS
Guidance for Selection of Equipment Fleet.
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An Analytical Approach to Optimizing Airframe Production Costs as a Function of Production Rate.
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The Impact on Avionic Logistic Support Costs of False Maintenance Actions.
AD- 777 246
Suggested Methods for Implementation of Life Cycle Costing Techniques in the Procurement of Air Force General Purpose Commercial Vehicles.
AD- 777 249
Optimal Adjustment Policy for a Product with Two Quality Characteristics.
AD- 777 623
A Methodology for Determining Investment Costs for Automated Storage Facilities.
AD- 777 864
The Applicability of 'Should Cost' to the Procurement Process.
AD- 777 867
AGARD Highlights, March 1974.
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Economic Theoretical Structure of Cost-Benefit Analysis.
AD- 779 870
Models and Methodology for Life Cycle Cost and Test and Evaluation Analysis.
AD- 782 182
Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume I. Cost Methods Research and Development.
AD- 783 639
A Review of General Accounting Office Decisions on Life Cycle Costing.
AD- 783 932
Cost Estimating Relationships (CER) Compendium, Army Weapon and Equipment Systems.
AD- 784 124
A Cost Growth Model for Weapon System Development Programs.
AD- 785 438
The Development of a Predictive Model for First Unit Costs Following Breaks in Production.
AD- 785 953
Life Cycle Cost Study of Army Spectrometric Oil Program (ASOAP).
AD- 786 501
Analysis of Overhead Cost for a Defined Cost Center in the Lake City Army Ammunition Plant Using Regression Analysis.
AD- 786 502
Considering the Cost of DOD personnel: A Look at Some Issues Requiring Further Analysis.
AD- 786 581
The Impact of Direct Cost Funding on Test Center Management.
AD- 787 216
Cost Sharing for Shoreline Protection.
AD- 787 327
Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume III. Cost Data Base.
AD-A000 399
A General Treatment of Upper Unbounded and Bounded Hitchcock Problems.
AD-A002 678
Optimal Consumption with a Stochastic Income Stream.
AD-A004 568
Designing a Manual Cost Data Base.
AD-A006 508
Estimating the Marginal Balance of Payments Cost of Overseas Homeporting.
AD-A006 783
The Organizational Impact of C/SCSC Upon the Supervisor of Shipbuilding.
AD-A009 907
The Higher Costs of Buying Less.
AD-A009 931
Getting 'Real' Data for Life-Cycle Costing.
AD-A010 960
Air Force Human Resources Laboratory Military Personnel Costing Conference.
AD-A013 171
An Overview of DoD Policy for and Administration of Independent Research and Development.
AD-A013 362
Isoquants of Continuous Production Correspondences.
AD-A014 387
Army Helicopter Cost Drivers.
AD-A015 517
Uniform Ration Cost System - Summary Report.
AD-A016 111
Optimal System Allocations with Penalty Costs.
AD-A017 238
PWB Production Assembly Cost Guidelines.
AD-A020 960
Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model.
AD-A021 083
On the Reduction of Operating and Support Costs of Air Force Aircraft.
AD-A023 834
Incorporating Project Cost Considerations into Stochastic PERT

(Project Evaluation and Review Technique).
AD-A025 021
Summary Notes of a Government/Industry Software Sizing and Costing Workshop.
AD-A026 964
Minimizing the Cost of Completing a Project Subject to a Bound on the Expected Delay Time.
AD-A027 892
The Magnitude of Internal Rework on the F-4 Aircraft during Depot Level Maintenance at Ogden Air Logistics Center.
AD-A032 458
T and E Uniform Funding Policy. An Appraisal of the Fiscal Year 1975 Experience.
AD-A033 291
Rate Stabilization at Navy Industrial Fund Research and Development Activities.
AD-A035 889
An Evaluation of the GNP Deflator as a Basis for Adjusting the Allowable Price of Crude Oil.
AD-A036 146
Implementing Replacement Cost Accounting.
AD-A036 177
An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines.
AD-A044 082
A Pre-Processor for a Structured Version of COBOL.
AD-A045 415
Problems of the Improvement of Estimation, Account, Analysis and Forecasting the Prime Cost of Air Transportation.
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Internal Telephone Billing Rates - A Novel Application of Non-Atomic Game Theory.
AD-A047 109
Procurement Contracting Officer's Guide to Cost Accounting Standards.
AD-A047 167
Development of Methods for Analysis of the Cost of Enlisted Attrition.
AD-A047 198
Contractor Initiatives for Reliability, Maintainability, and Cost Improvement.
AD-A047 376
The Pricing of Computer Services: A Bibliography.
AD-A048 782
Cost Effective Analysis.
AD-A052 400
Rate Stabilization at Navy Industrial Fund Research, Development, Test and Evaluation Activities.
AD-A057 992
Making Better Use of Optimization Capability in Distribution System Planning.
AD-A058 273
The Aviation Career Incentive Act of 1974: An Analysis of Short-Range Results in the United States Air Force, 1974-1977.
AD-A058 335
A Fee Collection Mechanism for the Oil Pollution Liability and Compensation Legislation.
AD-A061 403
Hybrid Technology Cost Reduction and Reliability Improvement Study.
AD-A062 247
Administration of Cost Accounting Standards.
AD-A065 546
Discounting Theory and its Application in the Public Sector.
AD-A066 557
Decision Criteria for Cost-Plus-Award-Fee Contracts in Major Systems Acquisitions.
AD-A070 092
Implementing Usage-Sensitive Charges for AUTODIN. Volume I. Basic Study.
AD-A076 217
Implementing Usage-Sensitive Charges for AUTODIN. Volume II. AUTODIN Technical Appendices.
AD-A076 218
A Cost Accounting Standard on Capacity Related Costs: A Desirability and Feasibility Analysis.
AD-A076 583
The Impact of Cost Accounting Standard Number 409 on the Defense Industry.
AD-A076 630
Maintenance Surcharge for Range Use at the Pacific Missile Test Center.
AD-A076 833
The Effect of Price Competition on Weapon System Acquisition Costs.
AD-A078 232
COEFUM: A Computer Implementation of a Generalized Unmanned Vehicle Cost Model.
AD-A079 038
Costs and Benefits of Requiring New Production of Older Aircraft Types to Meet Amended Noise Standards.
AD-A080 130
Financial Status of Major Federal Acquisitions, September 30, 1979.
AD-A080 652
Rate Stabilization and Its Impact on U. S. Naval Shipyards.
AD-A081 146

COMPUTERIZED SIMULATION
Development of a Dynamic Simulation Filter.
AD-B00: 631

ENLISTED PERSONNEL
Military Occupational Specialty Training Cost Handbook (MOSB). Volume I. Enlisted MOS's.
AD- 920 773

GOVERNMENT PROCUREMENT
A Critique of Cost Analysis.
AD- 766 376

INVENTORY ANALYSIS

Analysis of Criteria for Changing Standard Prices.
AD- 767 090

LOGISTICS SUPPORT
Procedures and Methodology for Logistics Supportability Test and Evaluation.
AD- 918 945

MAINTENANCE MANAGEMENT
An Analysis of Cost Implications of Accomplishing Direct Support Maintenance Tasks for the Truck, 1/4-Ton, M151 Series at the Organizational Maintenance Level.
AD-B006 685

NAVAL AIRCRAFT
Estimating Aircraft Acquisition Costs by Parametric Methods.
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OFFICER PERSONNEL
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UNCERTAINTY
The Magnitude of Variability in Cost Estimates.
AD- 765 446

*COURSES(EDUCATION)
Management of Special Tooling and Special Test Equipment Acquired on Major Weapon System Acquisition Programs.
AD-A028 408
A Cost Analysis of Graduate Education in Logistics Management.
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*CRACKING(FRACTURING)
Predicted Crack Repair Costs for Aircraft Structures.
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*CRIMINAL JUSTICE SYSTEM
Optimizing the Cost Effectiveness of Military Corrections: An Assessment of Program Evaluations and Related Data.
AD-A058 575

*CROSSED FIELD DEVICES
Low-Cost, Crossed-Field Amplifier Meanderline Circuit Concepts.
AD-A061 147
I/J Band Low-Cost Crossed-Field Amplifier.
AD-A063 928

*CRUDE OIL
An Evaluation of the GNP Deflator as a Basis for Adjusting the Allowable Price of Crude Oil.
AD-A036 146

*CUSHIONING
Evaluation of Polypropylene and Polyethylene Cushion Wrap Materials.
AD-A039 089

*DATA ACQUISITION
A Low-Cost, General Purpose Data Acquisition and Control System for the PDP-11 Minicomputer.
AD-A050 224

*DATA BANKS
Privacy Protection in Databanks: Principles and Costs.
AD-A023 406

*DATA BASES
Designing a Manual Cost Data Base.
AD-A006 508
Data Storage Decisions for Large Data Bases.
AD-A023 874
Life-Cycle Costing. A Selected Bibliography.
AD-A030 554
Sources and Nature of Cost Analysis Data Base Reference Manual.
AD-A065 864
Incremental Costing Model for Use with the CNET Per Capita Course Costing Data Base: System I.
AD-A081 759

*DATA LINKS
Cost-Effective GaAs Read IMPATT Transmitters.
AD-A056 996
Low Cost Anti-Jam Digital Data-Links Techniques Investigations. Volume III.
AD-A082 328

*DATA MANAGEMENT
Data Management Systems for Structured Information Retrieval.
AD- 776 808
An Analysis of Storage, Retrieval, and Update Costs for Data Bases which are Tables of Entries.
AD-A069 763

*DATA PROCESSING
Computer-Based Specifications: Cost Analysis Study.
AD- 786 551
Automatic Data Processing Costs in the Defense Department.
AD-A004 841
A Preliminary Cost Analysis of the Communications Processor for the F-15 Joint Tactical Information Distribution System.
AD-A027 365
The Pricing of Computer Services: A Bibliography.
AD-A048 782

COST EFFECTIVENESS
Cost Tradeoffs Between Local and Remote Computing.
AD- 767 071

*DATA PROCESSING SECURITY
Privacy Protection in Databanks: Principles and Costs.
AD-A023 406

Optimization of a Computer Security Index Versus Cost.
AD-A062 003

*DATA PROCESSING TERMINALS
Management Strategies for ADP Networking.
AD- 785 876
Low-Cost Terminal Alternative for Learning Center Managers.
AD-A082 343

*DATA STORAGE SYSTEMS
Data Storage Decisions for Large Data Bases.
AD-A023 874
Handbook For Estimating Conversion Costs of Large Business Programs.
AD-A065 145
An Analysis of Storage, Retrieval, and Update Costs for Data Bases which are Tables of Entries.
AD-A069 763

*DATA TRANSMISSION SYSTEMS
Computer Network Usage-- Cost/Benefit Analysis - I.
AD- 771 439
Implementing Usage-Sensitive Charges for AUTODIN. Volume I. Basic Study.
AD-A076 217
Implementing Usage-Sensitive Charges for AUTODIN. Volume II. AUTODIN Technical Appendices.
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*DECISION MAKING
A Method for Least-Cost Scheduling of Personnel through Training Course Sequences.
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An Examination of Alternative Methods for Employing Booms to Contain Oil Spills in Navy Harbors.
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A Study in the Application of the Cost Center Performance Summary to the Managerial Decision-Making Process.
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Engineering Economic Analysis of Alternatives Using Benefits as Criteria for Evaluation.
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A Cost-Effectiveness Model, Choice through Preferences.
AD-A006 205
Data Storage Decisions for Large Data Bases.
AD-A023 874
Applications of Decision Analysis to the U. S. Army Affordability Study.
AD-A064 442
A Lease versus Buy Decision Methodology for the Army: A proposal.
AD-A068 537
Behavioral Aspects of Cost-Benefit Analysis.
AD-A075 099
Venture Evaluation and Review Technique (VERT). Users'/Analysts' Manual.
AD-A078 656

*DECISION THEORY
Denumerable State Markov Decision Processes with Unbounded Costs.
AD- 771 432
Decision Theory Research.
AD- 779 861
The Secretary Problem with Interview Cost.
AD- 785 849
Optimal Control of the M/G/1 Queueing System with Removable Server-Linear and Non-Linear Holding Cost Function.
AD-A030 646
A Theory for Semi-Markov Decision Processes with Unbounded Costs and Its Application to the Optimal Control of Queueing Systems.
AD-A030 649
Introduction to Multiple State Multiple Action Decision Theory and Its Relation to Mixing Structures.
AD-A036 371

WAR GAMES
Development of a Dynamic Simulation Filter.
AD-B001 641

*DEFENSE SYSTEMS
Can Cost Analysis Improve Management.
AD- 779 579
Cost of Ownership Handbook.
AD-A029 495
Life-Cycle Costing. A Selected Bibiliography.
AD-A030 554
Acquiring Affordable Weapons Systems.
AD-A042 777

*DELAY
Minimizing the Cost of Completing a Project Subject to a Bound on the Expected Delay Time.
AD-A027 882

*DELAY LINES
Low-Cost, Crossed-Field Amplifier Meanderline Circuit Concepts.
AD-A061 147

*DEPARTMENT OF DEFENSE
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The 'Should Cost' Concept.
AD- 779 359
A Review of General Accounting Office Decisions on Life Cycle Costing.
AD- 793 932
Considering the Cost of DOD personnel: A Look at Some Issues Requiring Further Analysis.
AD- 786 581
Automatic Data Processing Costs in the Defense Department.

AD-A004 641
The Development of Alternative Food Cost Indexes.
AD-A009 096
The Higher Costs of Buying Less.
AD-A009 931
Users Manual: Forecast of Schedule/Cost Status Utilizing Cost Performance Reports of the Cost/Schedule Control Systems Criteria: A Bayesian Approach (FORTRAN IV).
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AD-A019 185
Military Cost Analysis in the FCRCs (Federal Contract Research Centers) - 1950-1975.
AD-A019 701

CONTRACTS
'Design to Cost' Buzz-Word or Viable Concept.
AD- 763 624

*DEPLOYMENT
Cost Effectiveness of Smoke Screens Employed by Indirect Fire Means.
AD-A044 529

*DEPOTS
Workload Analysis of a Military Repair Depot.
AD-A020 363
Air Force Central Supply and Maintenance Cost Data Base FYs 1965-1974.
AD-A024 251

*DESIGN TO COST
The Impact of Required Contractual Clauses on System Acquisition Policies: The Case of Value Engineering.
AD-A018 528
Design to Cost of Advanced Lightweight Torpedo.
AD-A028 407
Design to Cost Policy Versus Implementation.
AD-A028 859
Design to Cost and Life Cycle Costing: Complementary or Dichotomous.
AD-A029 255
An Application of Multi-Attribute Utility Theory: Design-to-Cost Evaluation of the U.S. Navy's Electronic Warfare System.
AD-A029 987
Engine Systems Ownership Cost Reduction - Aircraft Propulsion Subsystems Integration (APSI).
AD-AC30 788
An Analysis of the Need for Industrial Engineering Capability in Production at Electronic Systems Division.
AD-A032 061
LCC/DTC Tasks Conducted for MX weapon System Program.
AD-A050 588
A Dynamic Theory of Contractual Incentives.
AD-A052 822
Forecasting Depot Overhaul Costs of Tactical Missile Guidance and Control Subsystems.
AD-A059 567
The FFG-7 Frigate an Application of the Design-to-Cost Concept.
AD-A062 169
Design to Cost (DTC) implementation Guidance.
AD-A069 389
Demonstration Model System. Volume II. The Naval Electronics Design Cost Model (NEDCOM): Program Manual.
AD-A073 969
Demonstration Model System. Volume III. NEDCOM User's Guide.
AD-A073 970
Demonstration Model System. Volume IV. Slide-Rule Model System Program Manual.
AD-A073 971
Demonstration Model System. Volume V. Slide-Rule Model System User's Guide.
AD-A073 972
The A-10 and Design-to-Cost: How Well Did It Work.
AD-A075 437

*DETERRENCE
A Cost/Benefit Matrix Model of Nuclear Deterrence.
AD-A007 467

*DIES
Development of a Low-Cost Composite Die Using High-Energy-Rate Forming (HERF).
AD- 771 957

*DIFFERENCE EQUATIONS
A Difference Equation Approach to the Optimal Control of a Multiclass Queue with Discounted Costs.
AD-A017 658

*DIGITAL COMPUTERS
An Approach to Point of Sale System Acquisition Cost-Benefit Analysis.
AD-A018 308

*DIGITAL SYSTEMS
Digital Avionics Information System (DAIS). Volume II. Training Requirements Analysis Model Users Guide.
AD-A061 389

*DISTRIBUTION
Making Better Use of Optimization Capability in Distribution System Planning.
AD-A058 273

*DRAINAGE
Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A.

Regional Sub-Basin Plans. Volume 1. Cedar River Basin.
AD-A042 166
Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 2. Green River Basin.
AD-A042 167

*DRIVES
Cost Analysis of a Helicopter Transmission and Drive Train.
AD-A080 518

*DYNAMIC PROGRAMMING
Some Results on An 'Income Fluctuation Problem'.
AD-A020 289
Competitive Prices, Dynamic Programming under Uncertainty, a Nonstationary Case.
AD-A028 243
Dynamic Theory of Production Correspondences. Part III.
AD-A057 951
Scheduling Tasks with Exponential Service Times on Nonidentical Processors to Minimize Various Cost Functions.
AD-A062 471

*EARLY WARNING SYSTEMS
Unattended Radar Station Design for Dewline Application. Volume II.
AD-A059 510

*ECONOMETRICS
A Parametric Linear Complementarity Technique for the Computation of Equilibrium Prices in a Single Commodity Spatial Model.
AD-A066 518

*ECONOMIC ANALYSIS
Equilibrium Analysis of Effects of a Price Change of an Input Factor in the Context of Input-Output System.
AD-A017 540
Capital/Labor Substitution and Factor Price Ratios in a Military Service: A Study of Defense Resource Allocation.
AD-A019 190
An Economic Analysis of Lay-Offs.
AD-A026 386
Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume II.
AD-A058 228
Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume I.
AD-A058 272
Transforms and Approximations in Cost and Production Function Relations.
AD-A068 993
Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume I.
AD-A072 348
Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II.
AD-A072 349
Methoology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II. Appendix I.
AD-A072 350
Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II. Appendix II.
AD-A072 351
Methoology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume III.
AD-A072 352

*ECONOMIC MODELS
A Hierarchical Approach to Production Planning.
AD-A019 947
Measurement of Technological Innovation by Firms.
AD-A021 712
Competitive Prices, Dynamic Programming under Uncertainty, a Nonstationary Case.
AD-A028 243
Introduction to the USAF Total Force Cost Model.
AD-A042 460
Deflation of the 18 Sector Soviet Input-Output Tables.
AD-A059 283
Development of Cost Escalation Indexes for Operation and Maintenance Budget Categories.
AD-A061 817
Pareto Efficiency with Costly Transfers.
AD-A069 212

*ECONOMICS
Economic Analysis Handbook Theory and Application. Volume III. Guide for Reviewers of Economic Analysis.
AD- 771 986
Economic Analysis Handbook Theory and Application. Volume IV. Case Studies.
AD- 771 989
Economic Theoretical Structure of Cost-Benefit Analysis.
AD- 779 870
Cost and Production Functions - A Survey.
AD- 781 711
Engineering Economic Analysis of Alternatives Using Benefits as Criteria for Evaluation.
AD- 787 045
The Static Theory of Transfer Pricing.
AD-A014 382
Isoquants of Continuous Production Correspondences.
AD-A014 387

Some Results on An 'Income Fluctuation Problem'.
AD-A020 289
Critique of Cost-Effectiveness.
AD-A022 195
Are Dual Variables Prices. If Not, How to Make Them More So.
AD-A060 819

COSTS
An Approach to the Allocation of Common Costs of Multi-Mission Systems.
AD- 766 624

*EDUCATION
A Conceptual Design for the Cost Evaluation of Alternative Educational Systems in Managing the Air Force Academy and Air Force ROTC.
AD- 770 746

*EJECTION SEATS
Feasibility Study of a Cost-Effective Composite Materials Maximum Performance Escape System Seat.
AD-A076 373

*ELECTRIC GENERATORS
Historical Escalation of Operation and Maintenance Costs for Field Generator Sets
AD-A059 863

*ELECTRIC POWER DISTRIBUTION
The Move Towards Marginal Cost Pricing in Electricity.
AD-A037 920

*ELECTRIC POWER PRODUCTION
MAGNETOHYDRODYNAMIC GENERATORS
Development of Design Criteria, Cost Estimates, and Schedules for an MHD High Performance Demonstration Experiment.
AD- 766 232

*ELECTRICITY
The Move Towards Marginal Cost Pricing in Electricity.
AD-A037 920

*ELECTRODES
FUEL CELLS
Low Cost Oxygen Electrodes.
AD- 769 905

*ELECTRON TUBES
I/J Band Low-Cost Crossed-Field Amplifier.
AD-A063 928

*ELECTRONIC EQUIPMENT
Use of Computerized Support Modeling in Logistic Support Analysis.
AD- 783 487
Avionics Data for Cost Estimating.
AD-A043 265
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume I. Study Synopsis.
AD-A045 162
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume II. A Candidate Electronics Manufacturing Technology Plan.
AD-A045 163
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume III. Appendices.
AD-A045 164
Multilevel Modularization of Systems to Minimize Life Cycle Cost.
AD-A061 636
Life Cycle Cost Analysis Model. Part I. The Mathematical Model.
AD-A067 882

*ELECTRONIC TECHNICIANS
Manpower Cost Reduction in Electronics Maintenance: Framework and Recommendations.
AD- 784 444

*ELECTRONIC WARFARE
Cost Estimating Relationships for Naval Surface Ship Electronic Warfare Equipment.
AD-A009 576
An Application of Multi-Attribute Utility Theory: Design-to-Cost Evaluation of the U.S. Navy's Electronic Warfare System.
AD-A029 987

*ELECTRONICS
Electronics-X: A Study of Military Electronics with Particular Reference to Cost and Reliability. Volume 1: Executive Conspectus.
AD- 783 007
Electronics-X: A Study of Military Electronics with Particular Reference to Cost and Reliability. Volume 2: Complete Report.
AD-A001 065

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AD- 777 4..

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A Proposed Aviation Energy Conservation Program for the National Aviation System. Volume II. The Intermediate and Long Run, 1979-1990.
AD-A064 466

*ENERGY CONSUMPTION
Fuel Cost Escalation Study.
AD-A040 209

*ENERGY CONVERSION
Fuel from Organic Matter.

AD-A002 204

*ENERGY MANAGEMENT
Alternative Strategies for Optimizing Energy Supply, Distribution, and Consumption Systems on Naval Bases. Volume II. Advanced Energy Conservation Strategies.
AD- 786 757

*ENGINEERING GEOLOGY
Cost and Feasibility Evaluation for the Excavation of Large Hemispherical Cavities in Rainier Mesa.
AD-A067 218

*ENLISTED PERSONNEL
Development of Methods for Analysis of the Cost of Enlisted Attrition.
AD-A047 198
Life Cycle Navy Enlisted Billet Costs--FY78.
AD-A058 250

COSTS
Military Occupational Specialty Training Cost Handbook (MOSB). Volume I. Enlisted MOS's.
AD- 920 773

*ENVIRONMENTAL IMPACT STATEMENTS
ELF Communications SEAFARER Program. Site Survey, Michigan Region. Antenna Construction Cost Factors and Installation Plan.
AD-A036 405

*ENVIRONMENTAL MANAGEMENT
Evaluation of Environmental and Economic Benefits through Use of Synthetic Motor Oils.
AD-A046 277

*ENVIRONMENTAL PROTECTION
Cost Sharing for Shoreline Protection.
AD- 787 327

*EQUATIONS
Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A022 086

*EXCAVATION
Cost and Feasibility Evaluation for the Excavation of Large Hemispherical Cavities in Rainier Mesa.
AD-A067 218

*EXECUTIVE ROUTINES
Interactive Computer Graphics: A Responsive Planning and Control Tool for DoD Program Management.
AD-A041 798

*EXHAUST SYSTEMS
DC-9 Noise Retrofit Feasibility. Volume I. Lower Goal Noise. Performance and Cost Evaluation.
AD- 776 127

*EXPENDABLE
Low Cost Expendable Engine.
AD-A062 864

*EXPERIMENTAL DESIGN
A Quantitative Analysis of Estimating Accuracy in Software Development.
AD-A047 674

*FACILITIES
A Round-Trip Location Problem on a Tree Graph.
AD-A028 666

*FAILURE(ELECTRONICS)
Cost Optimizing System to Evaluate Reliability (COSTER).
AD-A038 761

*FAST FOURIER TRANSFORMS
Low Cost, Low Power Dissipation Micro-Signal Processor for Acoustic Signal Processing.
AD-A080 808

*FIBER OPTICS
An Approach to the Estimation of Life Cycle Costs of a Fiber-Optic Application in Military Aircraft.
AD-A019 379
The A-7 ALOFT Cost Model: A Study of High Technology Cost Estimating.
AD-A021 913
Life Cycle Costing of an Emerging Technology: The Fiber Optics Case.
AD-A031 839

*FIBER OPTICS TRANSMISSION LINES
A-7 ALOFT Economic Analysis Development Concept.
AD-A013 221
A-7 ALOFT Life-Cycle Cost and Measures of Effectiveness Models.
AD-A026 206
Life Cycle Costing of an Emerging Technology: The Fiber Optics Case.
AD-A031 839

*FINANCE
A Study in the Application of the Cost Center Performance Summary to the Managerial Decision-Making Process.
AD- 785 950
T and E Uniform Funding Policy. An Appraisal of the Fiscal Year 1975 Experience.
AD-A033 291
Cost-Effectiveness of Potential Federal Policies Affecting Research and Development Expenditures in the Auto, Steel and Food Industries.
AD-A046 269
Financing the Airport and Airway System: Cost Allocation and Recovery.
AD-A064 454
Pricing for U.S. Army Technical Assistance Field Teams (TAFT).
AD-A078 279

*FIRE CONTROL SYSTEMS
Reliability, Maintainability, Strategic Reliability, and Life

Cycle Cost Comparison Analysis of Three Alternative Mk 71 Mod 0 Gun Mount Control System Designs.
AD-A061 148
A Methodology and Analysis for Cost-Effective Training in the AN/TSQ-73 Missile Minder.
AD-A077 943

*FLARES
A Logistic/Cost-Effectiveness Model for Flares.
AD-A007 121

*FLIGHT RECORDERS
LCC Analysis of Flight Recorder for F-4 Wild Weasel Aircraft
AD-A023 830

*FLIGHT SIMULATORS
Cost and Training Effectiveness Analysis (CTEA) of the CH-47 Flight Simulator (CH47FS).
AD-A033 972
Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator.
AD-A036 159
Simulators for Training and Profit.
AD-A038 190

*FLIGHT TRAINING
Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator.
AD-A036 159
A Cost-Benefit Analysis of the Proposed Consolidation of All Navy and Marine A6-E Fleet Replacement Training Squadrons.
AD-A064 996

SYSTEMS ANALYSIS
B-1 Systems Approach to Training. Volume II. Appendix A. Cost Details.
AD-B007 209

*FLUIDIZED BED PROCESSORS
Economic Analysis of the Rotary Kiln and Fluidized Bed P and E Incinerators.
AD-A062 298

*FLUTTER
Low Cost Aircraft Flutter Clearance.
AD-A079 293

*FOOD
The Development of Alternative Food Cost Indexes.
AD-A009 056
Commercial Holding Cost Differential between Dry Storage and Controlled Cold Storage for Meal, Combat, Individual (MCI).
AD-A034 192

*FOOD DISPENSING
Uniform Ration Cost System - Summary Report.
AD-A016 111

*FORECASTING
Some Fundamental Properties of Governmental Expenditure Patterns--Theory and Evidence Based on Military Expenditures.
AD-A081 999

*FRIGATES
The FFG-7 Frigate an Application of the Design-to-Cost Concept.
AD-A062 169

MAINTENANCE
Facilities Maintenance Demonstration Study.
AD-B009 681

*FRINGE BENEFITS
Cost and Retention Impacts of the Navy's Conus Recreation Program.
AD-A038 654

*FUEL CELLS
AUXILIARY POWER PLANTS
Air Mobility Fuel Cell Study.
AD- 766 757

ELECTRODES
Low Cost Oxygen Electrodes.
AD- 769 905

*FUELS
Fuel from Organic Matter.
AD-A002 204

*FUNCTIONS(MATHEMATICS)
Performance/Cost Evaluation of Pipelined Cordic Function Units.
AD-A023 442

*GAME THEORY
Internal Telephone Billing Rates - A Novel Application of Non-Atomic Game Theory.
AD-A047 109
The Value of the Non-Atomic Game Arising from a Rate-Setting Application and Related Problems.
AD-A066 729

*GAS CHROMATOGRAPHY
Dual Column Operation for Gas Chromatograph-Mass Spectrometer.
AD-A034 309

*GAS GENERATING SYSTEMS
Coal Gasification Study Handbook.
AD-A042 385

*GAS TURBINES
Major Item Special Study (MISS). AH-1G Gas Turbine Engine (T53-L-13B).
AD- 776 939
Engine Systems Ownership Cost Reduction - Aircraft Propulsion Subsystems Integration (APSI).
AD-A030 788
Life Cycle Analysis of Aircraft Turbine Engines: Executive Summary.
AD-A039 062
An Investigation of the Relationship of Section Production Costs to Total Production Costs of Gas Turbine Engines.
AD-A044 172

Low Cost Expendable Engine.
AD-A062 864
Validation of the Detroit Diesel Allison Logistic Support Cost Model (Program OS 590).
AD-A072 670
An Approach to the Life-Cycle Analysis of Aircraft Turbine Engines.
AD-A080 930

*GATES(CIRCUITS)
Research Proposal for Minimal Cost Sequential Machines.
AD- 778 765

*GEOGRAPHIC AREAS
Consolidation of RPMA at Fayetteville, N. C. Volume I. Executive Summary for the Study of Consolidation of RPMA in the Fayetteville, N. C. Area.
AD-A033 754

*GLOBAL COMMUNICATION SYSTEMS
ELF Communications SEAFARER Program. Site Survey, Michigan Region. Antenna Construction Cost Factors and Installation Plan.
AD-A036 405

*GLOBAL POSITIONING SYSTEM
Avionics Cost Development for Civil Application of Global Positioning System.
AD-A056 936
LCC/DTC Tasks Conducted for GPS Army User Equipment.
AD-A072 310
Avionics Installation (AVSTALL) Cost Model for User Equipment of NAVSTAR Global Positioning System.
AD-A073 681
Avionics Cost Development for Civil Application of Global Positioning System.
AD-A080 945

*GONDOLAS
Design Assessment of Advanced Technology Lightweight, Low-Cost Mission-Configured Gondola Modules.
AD-A073 554

*GOVERNMENT EMPLOYEES
A Performance-Contingent Reward System That Uses Economic Incentives: Preliminary Cost-Effectiveness Analysis.
AD-A050 830

*GOVERNMENT PROCUREMENT
Study of Commercial Specifications for U. S. Navy Ships.
AD- 777 130
A Review of General Accounting Office Decisions on Life Cycle Costing.
AD- 783 932
Cost Growth: Effects of Share Ratio and Range of Incentive Effectiveness.
AD-A011 185
The Design to Unit Production Cost (DTUPC): Range of Applicability to Development Procurements.
AD-A011 186
Handbook for the Implementation of the Design to Cost Concept.
AD-A013 802
The Impact of Required Contractual Clauses on System Acquisition Policies: The Case of Value Engineering.
AD-A018 526
Procurement Contracting Officer's Guide to Cost Accounting Standards.
AD-A047 167

COST EFFECTIVENESS
'Design to Cost' Buzz-Word or Viable Concept.
AD- 763 624

COSTS
A Critique of Cost Analysis.
AD- 766 376

WEAPON SYSTEMS
The Change Process in Weapons System Acquisition.
AD- 768 826

*GRAPHICS
A Round-Trip Location Problem on a Tree Graph.
AD-A028 666

*GRENADES
Production Engineering Program to Develop Improved Mass-Production Process for M42/M46 Grenade Bodies.
AD-A058 278

*GUARANTEES
Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties.
AD-A045 889
A Methodology for Estimating the Economic Benefits of an Aircraft Engine Warranty.
AD-A047 282

*GUIDED MISSILE PERSONNEL
A Methodology and Analysis for Cost-Effective Training in the AN/TSQ-73 Missile Minder.
AD-A077 943

*GUIDED MISSILE SHIPS
The FFG-7 Frigate an Application of the Design-to-Cost Concept.
AD-A062 169

*GUIDED MISSILES
Cost Estimating Study, an Abstract of Activities Performed in 1974.
AD-A014 349
Opportunities for Cost Reductions in the Testing of New Missile Systems.
AD-A024 014
Cost-Driver Analysis for Computerized Production Process Planning.
AD-A074 054

*GUIDED PROJECTILES

Risk Analysis of the US Army 155mm Cannon-Launched Guided Projectile Program.
AD-A019 932

*GUN BARRELS
Production of Inconel 718 Mortar Tubes by Hydrostatic Extrusion.
AD- 783 416

*GUNS
Producibility Engineering and Planning (PEP).
AD-A035 671
Cost/Schedule Uncertainty Analysis for VADS Short-Range (RAM) Product Improvement Program.
AD-A039 813

*HANDBOOKS
Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume IV. Estimating Techniques Handbook.
AD- 785 375
Cost of Ownership Handbook.
AD-A029 495
Army Force Planning Cost Handbook.
AD-A030 099
Ramjet Cost Estimating Handbook.
AD-A056 991

*HEALTH CARE FACILITIES
Cost-Performance Relationships for Use with the Uniform Chart of Accounts for Militart Medical Treatment Facilities.
AD-A068 577

*HEALTH SURVEYS
Health Care Cost Sharing and Cost Containment.
AD-A032 220

*HEAT SINKS
POWER PLANTS(ESTABLISHMENTS)
Earth Heat Sinks for Underground Power Sources.
AD- 768 292

*HELICOPTER ENGINES
Major Item Special Study (MISS). AH-1G Gas Turbine Engine (T53-L-13B).
AD- 776 939

*HELICOPTER ROTORS
Flight Test of a Composite Multi-Tubular Spar Main Rotor Blade on the AH-1G Helicopter. Volume II. Cost Estimates and Process Specifications.
AD-A046 279

*HELICOPTERS
Cost-Effectiveness Model I. Prototype Selection and Trade-Office Analyses.
AD- 781 947
Army Helicopter Cost Drivers.
AD-A015 517
RMAC Analysis of CH-47 Helicopter.
AD-A016 117
Development of RMS Cost Model and Demonstration of Alternative OH-58 Maintenance Scenarios.
AD-A017 760
RMS Cost Model User's Manual.
AD-A017 761
Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator.
AD-A036 159
Sensitivity of Army Helicopter Operating and Support Costs to Changes in Design and Logistic Parameters.
AD-A040 353
An Analysis of the Cost Effectiveness of a Specialized Mission Helicopter in the U.S. Coast Guard.
AD-A075 444
Advanced Structures Concepts R and M/Cost Assessments.
AD-A077 373
Cost Analysis of a Helicopter Transmission and Drive Train.
AD-A080 518

*HIGH ENERGY
A Generalized Analysis of the Performance of a Variety of Drive Systems for High Reynolds Numbe.. Transonic. Wind Tunnels.
AD- 784 883

*HIGH ENERGY RATE FORMING
Development of a Low-Cost Composite Die Using High-Energy-Rate Forming (HERF).
AD- 771 957

*HOSPITALS
Comparative Analysis of Capital Equipment Budgeting Systems in Health Care Institutions.
AD- 787 367

*HOUSING PROJECTS
Cost Effectiveness of Alternative Noise Reduction Methods for Construction of Family Housing.
AD-A028 922

*HOUSING(DWELLINGS)
Cost Benefit Analysis of the Department of Defense Family Housing Program.
AD-A061 421
Real Estate Cost Estimating Techniques for PL 91-646 Relocation Costs.
AD-A075 511

*HOWITZERS
Cost-Effectiveness Comparison of the Retubed M114 and XM198 Cannon Systems.
AD-A013 521

*HUMAN FACTORS ENGINEERING
Hard Data Sources Concerning More Cost Effective Maintenance.
AD-A029 198

*HUMAN RESOURCES
Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of

Aircraft System Acquisition-Appendix A.
AD-A075 209
Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition.
AD-A075 272

*HYBRID CIRCUITS
Hybrid Technology Cost Reduction and Reliability Improvement Study.
AD-A062 247
Hybrid Technology Cost Reduction Improvement Study Program. Volume I. Results of Literature Search and Questionnaire Survey.
AD-A062 406
Hybrid Technology Cost Reduction Improvement Sudy Program. Volume II. Abstracts of Articles on Hybrid Microcircuits.
AD-A062 407

*HYDROFOIL CRAFT
Marginal Cost Factors for High Performance Ships and their Impact on Subsystem Design.
AD-A075 530

*HYPERBOLIC NAVIGATION
River and Harbor Aid to Navigation System (RIHANS) Phase 1-C; System Definition. Volume IV. Cost.
AD- 780 986

*ICE FORMATION
Winter Rate Study for Great Lakes-St. Laurence Seaway System. Volume I.
AD-A021 210

*IMPACT TESTS
Estimation of UG3RD Capacity Impacts.
AD-A037 079

*IMPATT DIODES
Cost-Effective GaAs Read IMPACT Transmitters.
AD-A044 034
Cost-Effective GaAs Read IMPATT Transmitters.
AD-A056 996

*INCENTIVE CONTRACTS
A Dynamic Theory of Contractual Incentives.
AD-A052 822

*INCINERATORS
Economic Analysis of the Rotary Kiln and Fluidized Bed P and E Incinerators.
AD-A062 298

*INCOME
Some Results on An 'Income Fluctuation Problem'.
AD-A020 289

*INDEXES
Historical and Forecasted Aeronautical Cost Indices.
AD-A022 794

*INDEXES(RATIOS)
Cost of Living Adjustment for Military Personnel.
AD- 778 634

*INDIRECT COSTS
An Analytical View of Advance Incentivized Overhead Agreements in the Defense Industry.
AD-A047 634
An Analytical Evaluation of Procedures for Closing Cost-Type Contracts.
AD-A072 697

*INDIRECT FIRE
Cost Effectiveness of Smoke Screens Employed by Indirect Fire Means.
AD-A044 529

*INDUSTRIAL ENGINEERING
An Analysis of the Need for Industrial Engineering Capability in Production at Electronic Systems Division.
AD-A032 061
The Value of the Base Level Industrial Engineer.
AD-A074 394

*INDUSTRIAL EQUIPMENT
Plant Equipment Package (PEP) Modernization Program. Volume 7. PEP Economic
AD-A045 503

*INDUSTRIAL PLANTS
Investigation of the Impact of Rent-Across-the-Board.
AD- 775 233
Design of a Facility to Implement a Low Cost Process for Production of NHC.
AD-A070 020

*INDUSTRIAL PROCUREMENT
A Quantitative Examination of Cost-Quantity Relationships. Competition during Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume I. Executive Summary.
AD- 778 612
A Quantitative Examination of Cost-Quantity Relationships. Competition During Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume II.
AD- 784 335

*INDUSTRIAL PRODUCTION
Isoquants of Continuous Production Correspondences.
AD-A014 387
An Analysis of the Inflationary Effects on Inventory Systems.
AD-A028 268
An Analysis of the Need for Industrial Engineering Capability in Production at Electronic Systems Division.
AD-A032 061
Permutation Type Schedules on a

Single Machine under Cost Criteria.
AD-A032 071
A Methodology for Estimating Jet Engine Costs Early in Weapon System Acquisition.
AD-A033 667
Lower Cost by Substituting Steel for Titanium.
AD-A067 997
Costs and Benefits of Requiring New Production of Older Aircraft Types to Meet Amended Noise Standards.
AD-A080 130
Production Lot Sizing with Material Handling Cost Considerations.
AD-A081 492

*INDUSTRIAL RESEARCH
An Overview of DoD Policy for and Administration of Independent Research and Development.
AD-AC13 362
Cost-Effectiveness of Potential Federal Policies Affecting Research and Development Expenditures in the Auto, Steel and Food Industries.
AD-A046 269

*INERTIAL GUIDANCE
Three Life Cycle Cost Models for Inertial Systems.
AD-A000 483

*INERTIAL MEASUREMENT UNITS
Cost-Estimating Relationships for Predicting Life-Cycle Costs of Inertial Measurement Unit Maintenance.
AD-A006 344

*INERTIAL NAVIGATION
A Description of a Life Cycle Cost Model for Inertial Navigation Systems.
AD- 785 392
Cost-Estimating Relationships for Predicting Life-Cycle Costs of Inertial Measurement Unit Maintenance.
AD-A006 344
Avionics Proliferation: A Life Cycle Cost Perspective.
AD-A016 478
AGMC LCC Model for Inertial Navigation Systems.
AD-A016 626
Cost Effective ILS. A Case Study and Evaluation.
AD-A029 482
AGMC Life Cycle Cost Model. an Accounting Model for Inertial Navigation Systems.
AD-A030 069
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (6th) Held at St. Petersburg. Florida. on 25-27 February 1975.
AD-A031 770

*INERTIAL SYSTEMS
Proceedings of Quarterly Meeting of Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Held at Anaheim. California on April 23-25. 1974.
AD- 785 390
Proceedings of Quarterly Meeting of Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems held at Clearwater. Florida on January 22-24. 1974.
AD- 785 391
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting Held at Kennebunkport. Maine. on 11-13 June 1974.
AD- 787 195
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting Held at Cambridge. Mass.. on 19 August 1974.
AD- 787 220
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (5th) Held at Redondo Beach. California on 19 November 1974.
AD-A014 108
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (6th) Held at St. Petersburg. Florida. on 25-27 February 1975.
AD-A031 770
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems. Quarterly Meeting held at San Diego. Calif. on 24-26 February 1976.
AD-A035 091

*INFLATION(ECONOMICS)
Historical Inflation Program.
AD-A020 669
Economic Escalation and the Military Program Manager.
AD-A026 557
Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft).
AD-A030 024
Implementing Replacement Cost Accounting.
AD-A036 177
Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft).
AD-A049 847
Development of Cost Escalation Indexes for Operation and Maintenance Budget Categories.
AD-A061 817

*INFORMATION PROCESSING
A Computerized Log for Systems and Cost Analysis Division Cost Estimate Control Data Center (CECDC) Validation Activity.

AD-A049 978

*INFORMATION RETRIEVAL
Data Management Systems for Structured Information Retrieval.
AD- 776 808
Requirements and Alternative Designs for Automating the Publication of NAVSEA MOTD at the NSDSA.
AD-A036 122

*INFORMATION SCIENCES
Data Storage Decisions for Large Data Bases.
AD-A023 874

*INFORMATION SYSTEMS
Data Storage Decisions for Large Data Bases.
AD-A023 874
Requirements and Alternative Designs for Automating the Publication of NAVSEA MOTD at the NSDSA.
AD-A036 122
Digital Avionics Information System (DAIS). Volume II Training Requirements Analysis Model Users Guide.
AD-A061 389
A Normative Cost-Benefit Analysis of the Systematic Design Methodology.
AD-A072 355

*INFORMATION THEORY
Low Cost Anti-Jam Digital Data-Links Techniques Investigations. Volume III.
AD-A082 328

*INLAND WATERWAYS
Winter Rate Study for Great Lakes-St. Lawrence Seaway System. Volume I.
AD-A021 219

*INPUT
A Preliminary Calibration of the RCA Price S Software Cost Estimation Model.
AD-A046 808

*INPUT OUTPUT MODELS
Deflation of the 18 Sector Soviet Input-Output Tables.
AD-A059 293

*INSTRUCTIONAL MATERIALS
A Conceptual Design for the Cost Evaluation of Alternative Educational Systems in Managing the Air Force Academy and Air Force ROTC.
AD- 770 746

*INSURANCE
A National Health Program.
AD-A023 881

*INTEGRATED CIRCUITS
Development Report for High-Reliability, Low-Cost Integrated Circuits.
AD-A062 706
Phase II Final Development Report for High-Reliability, Low-Cost Integrated Circuits.
AD-A081 666

*INTEGRATED SYSTEMS
Consolidation of RPMA at Fayetteville, NC. Volume II. Summary Cost Analysis for Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 518
Consolidation of RPMA at Fayetteville, NC. Volume III. Cost Analysis Support and Backup Data for the Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 519

*INTERACTIVE GRAPHICS
Interactive Computer Graphics: A Responsive Planning and Control Tool for DoD Program Management.
AD-A041 798

*INTERCOMMUNICATION SYSTEMS
A-7 ALOFT Life-Cycle Cost and Measures of Effectiveness Models.
AD-A026 206

*INVENTORY ANALYSIS
Managerial Inventory Formulations with Stockout Objectives and Fiscal Contraints.
AD-A002 681
Retail Stockage Policy under Budget Constraints.
AD-A041 308
On the Benefit-to-Cost Ratio of Base-Level Stocking Decisions for Low Demand Items.
AD-A053 953

COSTS
Analysis of Criteria for Changing Standard Prices.
AD- 767 090

*INVENTORY CONTROL
Development of Cost Parameters and Inventory Level Decisions at DSUs (Direct Support Units).
AD- 770 839
Navy Systemwide Stock Rationing.
AD- 771 354
The Affect of Wipics on the F4-B to N Conversion Program.
AD- 777 256
Analysis of Proposed Stock Range Rules.
AD-A009 120
Inventory Costs at US Army Materiel Command Depots.
AD-A021 777
An Analysis of the Inflationary Effects on Inventory Systems.
AD-A028 268
R. O. Inventory Problem with unknown Mean Demand and Learning (A Sequel).
AD-A045 210
Conventional AS Load List Study.
AD-A045 461
A Study of the Cost-Effectiveness of Inventory Management Policies Based on Average Requisition Size.

AD-A046 249

NAVAL EQUIPMENT
Application of the Penalty Cost Model to Centrally Managed Items.
AD- 768 731

*INVESTMENTS
A Methodology for Determining Investment Costs for Automated Storage Facilities.
AD- 777 864
Discounting Theory and its Application in the Public Sector.
AD-A066 557

*IRRADIATED FOOD
Cost of Irradiating Bacon and the Associated Energy Savings.
AD-A069 968

*JET ENGINE NOISE
DC-9 Noise Retrofit Feasibility. Volume II. Upper Goal Noise. Performance and Cost Evaluation.
AD- 777 895
Costs and Benefits of Requiring New Production of Older Aircraft Types to Meet Amended Noise Standards.
AD-A080 130

*JET ENGINES
Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model. Phase I.
AD-A021 075
Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model.
AD-A021 083
A Methodology for Estimating Jet Engine Costs Early in Weapon System Acquisition.
AD-A035 667
An Identification and Characterization of Cost Models/Techniques used by the Air Force Logistics Command to Estimate Jet Engine Operation and Support Costs.
AD-A044 083
Development of Cost Estimating Relationships for Aircraft Jet Core-Engine Overhaul Costs.
AD-A047 667

*JET FIGHTERS
The Affect of Mipics on the F4-B to N Conversion Program.
AD- 777 256
Joint Generalized Least Squares Applied to Cost Estimation for Fighter Aircraft.
AD-A003 354
Evaluation of F-15 Operations and Maintenance Costs Based on Analysis of Category II Test Program Maintenance Data.
AD-A021 258
Evaluation of F-16 Subsystem Options Through the Use of Mission Completion Success Probability and Designing to System Performance/Cost Models.
AD-A021 263
Scheduled Maintenance Policies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program.
AD-A030 146
A Summary and Analysis of the Logistics Support Cost Model Application to the ACF/F-16 Weapon System Acquisition.
AD-A072 597

*JOB SCHEDULING
Minimizing the Cost of Projects in Naval Shipyards.
AD- 769 801

*JOB ANALYSIS
A Computer Centralization Cost Model for Conceptual Design.
AD- 776 028
Interpretations of Task Difficulty in Terms of Resources: Efficiency, Load, Demand, and Cost Composition.
AD-A070 937
Defense Use of Military Personnel in Industrial Facilities. Largely Unnecessary and Very Expensive.
AD-A079 580

*JOB SHOP SCHEDULING
Permutation Type Schedules on a Single Machine under Cost Criteria.
AD-A032 071

*JOB TRAINING
Estimating the Cost of On-the-Job Training in Military Occupations: A Methodology and Pilot Study.
AD- 783 936
Evaluation of Methodology for Estimating the Cost of Air Force On-the-Job Training.
AD-A005 298
Training Developments: A Means to Reduce Life Cycle Costs.
AD-A045 447
Cost Analysis of Air Force On-the-Job Training: Development and Demonstration of a Methodology.
AD-A069 791

*JOBS
The Development and Evaluation of a Cost-Based Composite Scheduling Rule.
AD- 777 354

*JOINT MILITARY ACTIVITIES
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix D. Military Personnel and Training Costs.
AD-A067 194

*LABOR
Optimal Consumption with a Stochastic Income Stream.
AD-A004 568
Analysis and Computation of a Base Labor Rate for Cost Models of Major Weapon System Acquisition.
AD-A059 184

The Labor Market of the United States Shipbuilding Industry. 1960-1970.
AD-A059 224
Development of a Field Labor Rate for Army Aviation Maintenance.
AD-A059 290

*LANCHESTER EQUATIONS
Preliminary Criteria for Optimizing the Cost Effectiveness of System Improvements to Enhance Survivability.
AD-A064 115

*LAND USE
Water and Related Land Resources. Management Study. Volume V. Supporting Technical Reports Appendix. Annex F. Missouri Riverfront Corridor Land Use Plan and Program.
AD-A041 933

*LAUNCHING
New Remotely Piloted Vehicle Launch and Recovery Concepts. Volume I. Analysis, Preliminary Design and Performance/Cost Trade Studies.
AD-A077 475

*LAUNCHING SITES
Maintenance Surcharge for Range Use at the Pacific Missile Test Center.
AD-A076 833

*LEARNING CURVES
Tables of Quaternary S-Curves Based on 67%-69% R and D Curves and 67%-99% Production Curves. Volume 1.
AD-A000 557
Tables of Quaternary S-Curves Based on 70%-72% R and D Curves and 67%-99% Production Curves. Volume 2.
AD-A000 558
Tables of Quaternary S-Curves Based on 73%-75% R and D Curves and 67%-99% Production Curves. Volume 3.
AD-A000 559
Tables of Quaternary S-Curves Based on 76%-99% Production Curves. Volume 4.
AD-A000 560
Tables of Quaternary S-Curves Based on 79%-81% R and D Curves and 67%-99% Production Curves. Volume 5.
AD-A000 561
Tables of Quaternary S-Curves Based on 82%-84% R and D Curves and 67%-99% Production Curves. Volume 6.
AD-A000 562
Tables of Quaternary S-Curves Based on 88%-90% R and D Curves and 67% 99% Production Curves. Volume 8.
AD-A000 564
Tables of Quaternary S-Curves Based on 97%-99% R and D Curves and 67%-99% Production Curves. Volume 11.
AD-A000 567

*LEASING
Investigation of the Impact of Rent-Across-the-Board.
AD- 775 233
A Lease versus Buy Decision Methodology for the Army: A proposal.
AD-A058 537

*LEAST SQUARES METHOD
Joint Generalized Least Squares Applied to Cost Estimation for Fighter Aircraft.
AD-A003 354

*LEGISLATION
A Fee Collection Mechanism for the Oil Pollution Liability and Compensation Legislation.
AD-A061 403

*LIFE CYCLE COSTS
Avionics Proliferation: A Life Cycle Cost Persoective.
AD-A016 478
AGMC LCC Model for Inertial Navigation Systems.
AD-A016 626
An Approach to the Estimation of Life Cycle Costs of a Fiber-Optic Application in Military Aircraft
AD-A019 379
Army Life Cycle Cost Model: User's Guide. Volume I.
AD-A021 900
The A-7 ALOFT Cost Model: A Study of High Technology Cost Estimating.
AD-A021 913
A-7 ALOFT Life-Cycle Cost and Measures of Effectiveness Models.
AD-A026 206
Useful Life Cycle Cost Estimates for Defense Systems - An Evaluation.
AD-A026 560
Life Cycle Costing and the Effect of Ownership Costs.
AD-A027 288
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle costing. Appendix G. Cost Uncertainty Analysis Model.
AD-A027 666
An Objective Functional Approach to Structuring Contractual Performance Incentives.
AD-A028 487
Issues and Problems in Life Cycle Costing in DOD Major Systems Acquisition.
AD-A028 951
Design to Cost and Life Cycle Costing: Complementary or Dichotomous.
AD-A029 255
Cost of Ownership Handbook.
AD-A029 495
AGMC Life Cycle Cost Model. an Accounting Model for Inertial Navigation Systems.
AD-A030 069
Proceedings of OSD Aircraft

Engine Design and Life Cycle Cost Seminar, Held at Naval Air Development Center Warminster, Pennsylvania November 19, 20, and 21, 1975.
AD-A030 548
Life-Cycle Costing. A Selected Bibiliography.
AD-A030 554
Engine Systems Ownership Cost Reduction - Aircraft Propulsion Subsystems Integration (APSI).
AD-A030 788
Life Cycle Costing of an Emerging Technology: The Fiber Optics Case.
AD-A031 839
A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary.
AD-A031 843
Demonstration of a Logistics Support Cost Model for Stage III of the Digital European Backbone Program.
AD-A032 202
A Comparison Between the AN/ARN-84 (V) and the AN/ARN-118 (V) TACANS, Based on the Life Cycle Cost.
AD-A035 066
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems, Quarterly Meeting held at San Diego, Calif. on 24-26 February 1976.
AD-A033 091
Army Life Cycle Cost Model; Programmer's Guide. Volume II.
AD-A035 168
Introduction to Multiple State Multiple Action Decision Theory and Its Relation to Mixing Structures.
AD-A036 371
Life Cycle Analysis of Aircraft Turbine Engines: Executive Summary.
AD-A039 062
Aircraft System Operating and Support Costs: Guidelines for Analysis.
AD-A039 369
Ship operating and Support Costs: Guidelines for Analysis.
AD-A040 447
Combat Vehicle System Operating and Support Costs: Guidelines for Analysis.
AD-A041 508
Computer Model for Life Cycle Costing. User's Guide.
AD-A042 405
Logistic Support Cost Commitments for Life Cycle Cost Reduction.
AD-A043 034
An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines.
AD-A044 082
An Identification and Characterization of Cost Models/Techniques used by the Air Force Logistics Command to Estimate Jet Engine Operation and Support Costs.
AD-A044 083
Army Life Cycle Cost Model for Tracked Vehicle Systems.
AD-A044 157
An Investigation of the Relationship of Section Production Costs to Total Production Costs of Gas Turbine Engines.
AD-A044 172
Development of Cost Estimating Relationships for Aircraft Jet Core-Engine Overhaul Costs.
AD-A047 667
LCC/DTC Tasks Conducted for MX weapon System Program.
AD-A050 588
An Economic Analysis of Life Cycle Military Manpower Maintenance and Training Requirements in Avionics Minicomputer and Microcomputer Systems.
AD-A052 661
Naval Aircraft Operating and Support Cost Model - FY76 Revision.
AD-A053 180
A Computerized Model for Estimating Software Life Cycle Costs (Model Concept). Volume 1.
AD-A053 937
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing.
AD-A055 147
Unit Training Costs as a Part of Life Cycle Cost: A Methodology.
AD-A056 087
AFSATCOM Life Cycle Cost Model.
AD-A056 102
Digital Avionics Information System (DAIS). Volume I. Reliability and Maintainability Model.
AD-A056 530
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix F. Computer Models for LCC.
AD-A056 981
SEEK IGLOO Life Cycle Cost Model. Volume I. Cost Element Equations.
AD-A057 444
Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume II.
AD-A058 228
Life Cycle Navy Enlisted Billet Costs--FY78.
AD-A058 250
Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume I.
AD-A058 272
SEEK IGLOO Life Cycle Cost Model. Volume III. Maintenance Manual.
AD-A058 632
Automatic Test Equipment Software Life Cycle Cost Simulation Model Validation.
AD-A059 182
SEEK IGLOO Life Cycle Cost Model. Volume II. User's Manual.

AD-A059 222
Life Cycle Cost Analysis of Instruction-Set Architecture Standardization for Military Computer-Based Systems.
AD-A059 306
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model Volume III.
AD-A059 354
Unattended Radar Station Design for Dewline Application. Volume II.
AD-A059 510
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume 2.
AD-A059 518
Forecasting Depot Overhaul Costs of Tactical Missile Guidance and Control Subsystems.
AD-A059 567
Application of Life Cycle Costing Principles to Less than Major Programs.
AD-A060 772
Systems Approach to Life-Cycle Design of Pavements. Volume I. LIFE2 User's Manual.
AD-A061 157
Integrated Thermal Avionics Design (ITAD).
AD-A061 227
A Summary and Analysis of the Initial Application of Life Cycle Costing Techniques to a Major Weapon System Acquisition.
AD-A061 304
Air Force Acquisition Logistics Division, Its Creation and Role.
AD-A061 357
Digital Avionics Information System (DAIS). Volume II. Training Requirements Analysis Model Users Guide.
AD-A061 389
Multilevel Modularization of Systems to Minimize Life Cycle Cost.
AD-A061 638
Economic Analysis of the Rotary Kiln and Fluidized Bed P and E Incinerators.
AD-A062 298
An Approach to Software Life Cycle Cost Modeling.
AD-A064 223
An Appraisal of Models Used in Life Cycle Cost Estimation for USAF Aircraft Systems.
AD-A064 333
Systems Approach to Life-Cycle Design of Pavements. Volume III. LIFE2 Program Listing.
AD-A064 698
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix D. Military Personnel and Training Costs.
AD-A067 194
Systems Approach to Life-Cycle Design of Pavements. Volume II. LIFE2 System Documentation.
AD-A067 691
Life Cycle Cost Analysis Model. Part I. The Mathematical Model.
AD-A067 882
Aircraft Transparency Failure and Logistical Cost Analysis. Volume I. Program Summary.
AD-A068 719
Aircraft Transparency Failure and Logistical Cost Analysis. Volume II. Design Data and Maintenance Procedures.
AD-A068 720
Aircraft Transparency Failure and Logistical Cost Analysis. Volume III. Transparency Analysis.
AD-A068 721
Life Cycle Cost Management Guidance for Program Managers.
AD-A069 388
Methodology for Control of Life Cycle Costs for Avionics Systems.
AD-A069 973
Test Program Set Cost Algorithm.
AD-A070 629
Standard Electronic Module Radar Life Cycle Cost Comparison.
AD-A071 110
LCC/DTC Tasks Conducted for GPS Army User Equipment.
AD-A072 310
Inhibitors to the Use of Life Cycle Costing: Results of a Survey of Military/Industrial Managers.
AD-A072 553
A Summary and Analysis of the Logistics Support Cost Model Application to the ACF/F-16 Weapon System Acquisition.
AD-A072 592
Validation of the Detroit Diesel Allison Logistic Support Cost Model (Program OS 590).
AD-A072 670
Evaluation of the Engineering Change Proposal Cost Evaluation Model.
AD-A073 067
Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition-Appendix A.
AD-A075 209
Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition.
AD-A075 272
A Study of Two Avionics Life Cycle Cost Models and Their Applicability in the Communications-Electronics-Meteorological Environment.
AD-A076 981
An Approach to the Life-Cycle Analysis of Aircraft Turbine Engines.
AD-A080 930
Briefing on Manufacturing Technology (MT) Cost Driver Analysis Program to Naval Air Systems Command, Department of the Navy, Washington, D.C..
AD-A080 962
Manpower/Hardware Life Cycle Cost Analysis Study.
AD-A081 513

*LIFE CYCLES
Suggested Methods for Implementation of Life Cycle Costing Techniques in the Procurement of Air Force General Purpose Commercial Vehicles.
AD- 777 249
Models and Methodology for Life Cycle Cost and Test and Evaluation Analysis.
AD- 782 182
Problems in Avionics Life-Cycle Analysis.
AD- 783 320
A Description of a Life Cycle Cost Model for Inertial Navigation Systems.
AD- 785 392
A Summary and Analysis of Selected Life Cycle Costing Techniques and Models.
AD- 787 183
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting Held at Kennebunkport, Maine, on 11-13 June 1974.
AD- 787 195
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting Held at Cambridge, Mass., on 19 August 1974.
AD- 787 220
Operating and Support Cost Development Guide for Aircraft Systems.
AD-A001 747
The Concept of Life Cycle Costing Applied to the MICV project.
AD-A009 189
Getting 'Real' Data for Life-Cycle Costing.
AD-A010 960
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (5th) Held at Redondo Beach, California on 19 November 1974.
AD-A014 108
Executive Summary of the Navy Weapon System Life-Cycle Cost Model (WSCOM).
AD-A014 319
Analysis of Available Life Cycle Cost Models and Actions Required to Increase Future Model Applications.
AD-A014 772
Army Helicopter Cost Drivers.
AD-A015 517
A Weapon-System Life-Cycle Overview: The A-7D Experience.
AD-A017 125
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (6th) Held at St. Petersburg, Florida, on 25-27 February 1975.
AD-A031 770

COSTS
Life Cycle Cost/System Effectiveness Evaluation and Criteria.
AD- 916 001

*LIFE TESTS
The Impact on Avionic Logistic Support Costs of False Maintenance Actions.
AD- 777 246

*LINEAR PROGRAMMING
Denumerable State Markov Decision Processes with Unbounded Costs.
AD- 771 432
A Parametric Linear Complementarity Technique for the Computation of Equilibrium Prices in a Single Commodity Spatial Model.
AD-A066 518
Venture Evaluation and Review Technique (VERT). Users'/Analysts' Manual.
AD-A078 656

*LITERATURE SURVEYS
Hybrid Technology Cost Reduction Improvement Sudy Program. Volume II. Abstracts of Articles on Hybrid Microcircuits.
AD-A062 407

*LOGIC CIRCUITS
Research Proposal for Minimal Cost Sequential Machines.
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*LOGISTIC SUPPORT
Life Cycle Cost Analysis of Merchant Ship Expeditionary Logistic Facilities.
AD- 773 014

*LOGISTICS
Logistical Simulation Model for the Light Weight Company Mortar: A Technique for Computing Support Cost and Operational Availability.
AD-A003 239
Minimizing the Cost of Completing a Project Subject to a Bound on the Expected Delay Time.
AD-A027 882
A General Warehouse Module Conceptual Design and Cost Analysis. Volume II. Main Text and Appendices.
AD-A031 384
AFSATCOM Life Cycle Cost Model.
AD-A056 102
Making Better Use of Optimization Capability in Distribution System Planning.
AD-A058 273

*LOGISTICS MANAGEMENT
A Simulation of the Reparable Processing Procedures Applicable to Reliability Improvement Warranties.
AD-A016 038
Definition of a Systematic Cost- and Logistics-Effectiveness (Scale) Procedure.
AD-A021 115
Inventory Costs at US Army Materiel Command Depots.

AD-A021 717
Reducing Support Costs and Improving Reliabilities/Availabiliti es of Air Force Aircraft Equipment.
AD-A023 835
On High Support Costs and Poor Reliabilities in Air Force Aircraft Equipments.
AD-A023 836
Air Force Central Supply and Maintenance Cost Data Base FYs 1965-1974.
AD-A024 251
Issues and Problems in Life Cycle Costing in DOD Major Systems Acquisition.
AD-A028 951
Design to Cost and Life Cycle Costing: Complementary or Dichotomous.
AD-A029 255
Visibility and Management of Support Costs - Ships (VAMOSC II).
AD-A030 782
Logistic Support Cost Commitments for Life Cycle Cost Reduction,
AD-A043 034
A Study of the Cost-Effectiveness of Inventory Management Policies Based on Average Requisition Size.
AD-A046 249
A Cost Analysis of Graduate Education in Logistics Management.
AD-A047 662
Inhibitors to the Use of Life Cycle Costing: Results of a Survey of Military/Industrial Managers.
AD-A072 553

*LOGISTICS PLANNING
Major Item Special Study (MISS). AH-1G Gas Turbine Engine (T53-L-13B).
AD- 776 939
Suggested Methods for Implementation of Life Cycle Costing Techniques in the Procurement of Air Force General Purpose Commercial Vehicles.
AD- 777 249
The Contractual Implications of the Design-to-Cost Concept.
AD- 777 457
Relating Technology to Acquisition Costs. Aircraft Turbine Engines.
AD- 780 636
An Evaluation of the Replacement Criteria for Select Air Force Commercial General Purpose Motor Vehicles.
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Management Strategies for ADP Networking.
AD- 785 876
The Development of a Predictive Model for First Unit Costs Following Breaks in Production.
AD- 785 953
A Summary and Analysis of Selected Life Cycle Costing Techniques and Models.
AD- 787 183
Three Life Cycle Cost Models for Inertial Systems.
AD-A000 483
A General Treatment of Upper Unbounded and Bounded Hitchcock Problems.
AD-A002 678
Estimating the Marginal Balance of Payments Cost of Overseas Homeporting.
AD-A006 783
A Logistic/Cost-Effectiveness Model for Flares.
AD-A007 121
Commodity Type as a Factor in Contract Cost Growth.
AD-A007 287
Analysis of Proposed Stock Range Rules.
AD-A009 120
Estimating Life-Cycle Costs: A Case Study of the A-7D.
AD-A011 643
Overhaul/Rebuild Cost Study ARMCOM Items.
AD-A014 950
Cost/Schedule Control System Criteria: An Analysis of Managerial Utility.
AD-A016 270
Cost Prediction Models for Bringing Selected Air Force Logistics Command Facilities into Compliance with the Occupational Safety and Health Administration Standards.
AD-A016 344
Deadline Cost Model Study.
AD-A018 624
A Hierarchical Approach to Production Planning.
AD-A019 947
Army Force Planning Cost Handbook.
AD-A030 099
Scheduled Maintenance Policies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program.
AD-A030 146
A Comparative Analysis of the Relationships of Total Distribution Costs between Airlift and Sealift.
AD-A030 763
A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary.
AD-A031 843
An Operational Version of the Depot Purchased Equipment Maintenance Allocation Model (DPEM MODEL).
AD-A041 426
Acquiring Affordable Weapons Systems.
AD-A042 777

*LOGISTICS SUPPORT
The Impact on Avionic Logistic Support Costs of False Maintenance Actions.
AD- 777 246
Use of Computerized Support Modeling in Logistic Support Analysis.
AD- 783 487
Operating and Support Costing

Guide: Army Weapon Systems.
AD-A003 436
Navy Weapon System Life-Cycle Cost Model.
AD-A003 905
Army Inventory Cost Parameters.
AD-A003 922
An Appraisal of Logistics Support Costs Used in the Air Force IROS Program.
AD-A009 844
Costs of the Next Due Base-Level Inspection during a Depot Visit.
AD-A026 299
Cost Effective ILS. A Case Study and Evaluation.
AD-A029 482
Visibility and Management of Support Costs - Ships (VAMOSC II).
AD-A030 782
Demonstration of a Logistics Support Cost Model for Stage III of the Digital European Backbone Program.
AD-A032 202
LOCAM 5. Volume I. Programmer/Users Manual.
AD-A039 474
Conventional AS Load List Study.
AD-A045 461
An Analysis of Major Training Area Operations in V Corps, US Army Europe.
AD-A047 126
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model Volume III.
AD-A059 354
Unattended Radar Station Design for Dewline Application. Volume II.
AD-A059 510
The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume 2.
AD-A059 516
Air Force Acquisition Logistics Division, Its Creation and Role.
AD-A061 357
A Summary and Analysis of the Logistics Support Cost Model Application to the ACF/F-16 Weapon System Acquisition.
AD-A072 592
Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition-Appendix A.
AD-A075 209
Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition.
AD-A075 272
Cooperative Logistics Supply Support Arrangement Pricing Relationships Between Programmed and Nonprogrammed Requisitions.
AD-A075 587
Statistical Risk Properties of the Logistic Support Cost Commitment.
AD-A080 196

AIR FORCE OPERATIONS
Procedures and Methodology for Logistics Supportability Test and Evaluation.
AD- 918 945

*LORAN
Avionics Cost Development For Use of Loran-C Navigation Systems By Low Performance General-Aviation Aircraft.
AD-A068 268

*LOW COSTS
Integration of Hybrid Structure into Low-Cost Aircraft Design - Rationale and Methodology.
AD-A023 416
Low-cost Computer-Aided Instruction/Computer-Managed Instruction (CAI/CMI) System: Feasibility Study.
AD-A081 072

*LUBRICATING OILS
Evaluation of Environmental and Economic Benefits through Use of Synthetic Motor Oils.
AD-A046 277

*MACHINE SHOP PRACTICE
Permutation Type Schedules on a Single Machine under Cost Criteria.
AD-A032 071

*MACHINE TOOL INDUSTRY
Measurement of Technological Innovation by Firms.
AD-A021 712

*MACHINE TOOLS
The Possible Application of Numerically Controlled Manufacturing to Navy Supply System Procurement.
AD-A012 636
A Regression Model Predicting Part Costs Machined by Numerically Controlled and Conventional Machinery.
AD-A025 133

*MACHINES
PW3 Production Assembly Cost Guidelines.
AD-A020 960

*MAGNETOHYDRODYNAMIC GENERATORS
PERFORMANCE(ENGINEERING)
Development of Design Criteria, Cost Estimates, and Schedules for an MHD High Performance Demonstration Experiment.
AD- 766 232

*MAINTAINABILITY
Cost-Estimating Relationships for Predicting Life-Cycle Costs of Inertial Measurement Unit Maintenance.
AD-A006 244
Navy Reliability and Maintainability Policy Study.
AD-A007 437
RMAC Analysis of CH-47 Helicopter.
AD-A016 117

Development of RMS Cost Model and Demonstration of Alternative OH-58 Maintenance Scenarios.
AD-A017 760
RMS Cost Model User's Manual.
AD-A017 761

*MAINTENANCE
Maintainability Demonstration Cost Savings Analysis.
AD- 773 907
Auditing Cost-Effectiveness Analyses of Technological Changes.
AD- 776 539
Avionics Cost Reduction Through Improved Tests.
AD- 787 188
Evaluation of Proposed Criteria to be Used in the Selection of Candidates for Reliability Improvement Warranties.
AD-A006 335
An Economic Model to Determine Costs when Intermediate Level Repair Uses Remotely Located Automatic Test Equipment.
AD-A006 341
Optimization of the Time Between Aircraft Overhauls by Minimizing Maintenance Cost.
AD-A006 505
Overhaul/Rebuild Cost Study ARMCOM Items.
AD-A014 950
Evaluation of F-15 Operations and Maintenance Costs Based on Analysis of Category II Test Program Maintenance Data.
AD-A021 258
Hard Data Sources Concerning More Cost Effective Maintenance.
AD-A029 198
Scheduled Maintenance Policies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program.
AD-A030 146
Consolidation of RPMA at Fayetteville, N. C. Volume I. Executive Summary for the Study of Consolidation of RPMA in the Fayetteville, N. C. Area.
AD-A033 754
A Comparison of Maintenance Costs and RAM Characteristics of New and Overhauled M35A2 2-1/2 Ton Trucks.
AD-A071 068
Manufacturing Technology Cost Drivers Study of Aircraft Rework, Overhaul and Remanufacture Processes. Volume I.
AD-A078 004

COST EFFECTIVENESS
An Analysis of Cost Implications of Accomplishing Direct Support Maintenance Tasks for the Truck, 1/4-Ton, M151 Series at the Organizational Maintenance Level.
AD-B006 685

SHIPBOARD
Facilities Maintenance Demonstration Study.
AD-B009 681

*MAINTENANCE EQUIPMENT
An Operational Version of the Depot Purchased Equipment Maintenance Allocation Model (DPEM MODEL).
AD-A041 426

*MAINTENANCE MANAGEMENT
Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis.
AD-A013 477
Periodic Replacement with Minimal Repair at Failure and Adjustment Costs.
AD-A014 385
Consolidation of RPMA at Fayetteville, NC. Volume II. Summary Cost Analysis for Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 518
Consolidation of RPMA at Fayetteville, NC. Volume III. Cost Analysis Support and Backup Data for the Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 519
The Magnitude of Internal Rework on the F-4 Aircraft during Depot Level Maintenance at Ogden Air Logistics Center.
AD-A032 458
LOCAM 5. Volume II. Programmer/Users Manual.
AD-A039 474
Consolidation of RPMA at Fayetteville, NC. Volume IV. General Procedures for Conducting RPMA Consolidation Studies.
AD-A041 331
An Operational Version of the Depot Purchased Equipment Maintenance Allocation Model (DPEM MODEL).
AD-A041 426
Aircraft Maintenance Cost Elements.
AD-A047 640
Maintenance Costs of Complex Equipment.
AD-A071 473
Maintenance Surcharge for Range Use at the Pacific Missile Test Center.
AD-A076 833

COSTS
An Analysis of Cost Implications of Accomplishing Direct Support Maintenance Tasks for the Truck, 1/4-Ton, M151 Series at the Organizational Maintenance Level.
AD-B006 685

*MAINTENANCE PERSONNEL
Manpower Cost Reduction in Electronics Maintenance: Framework and Recommendations.
AD- 784 444
Development of a Field Labor Rate for Army Aviation Maintenance.
AD-A059 290

*MANAGEMENT
Can Cost Analysis Improve

Management.
AD- 779 579
A Study in the Application of the Cost Center Performance Summary to the Managerial Decision-Making Process.
AD- 785 950
The U.S. Navy Foreign Military Sales Program.
AD-A026 559
Guidelines for Attracting Private Capital to Corps of Engineers Projects.
AD-A041 571
Application of Life Cycle Costing Principles to Less than Major Programs.
AD-A060 772
Forms of Ownership and a Cost-Effective Shipbuilding Industry.
AD-A069 120

*MANAGEMENT ENGINEERING
Minimizing the Cost of Completing a Project Subject to a Bound on the Expected Delay Time.
AD-A027 882
Contractor Initiatives for Reliability, Maintainability, and Cost Improvement.
AD-A047 378

*MANAGEMENT INFORMATION SYSTEMS
Cost Benefits of Navy Recreation: Summary of a Conference Held at the Smithsonian Institution on December 1973.
AD- 784 499
An Approach for Measuring Benefit and Cost in Management and Information Systems.
AD-A014 209
Visibility and Management of Support Costs - Ships (VAMOSC II).
AD-A030 702
Life Cycle Management of Army Tactical Management Information Systems (TACMIS).
AD-A032 499
OSCR System Applications Analysis.
AD-A038 477

*MANAGEMENT PLANNING AND CONTROL
An Advanced Air Traffic Management Concept Based on Extensions of the Upgraded Third Generation ATC System. System B: System Cost Analysis.
AD- 785 313
The Impact of Direct Cost Funding on Test Center Management.
AD- 787 216
A Product Improved Method for Developing a Program Management Office Estimated Cost at Completion.
AD-A007 125
The Organizational Impact of C/SCSC Upon the Supervisor of Shipbuilding.
AD-A009 907
Handbook for the Implementation of the Design to Cost Concept.
AD-A013 802
The Static Theory of Transfer Pricing.
AD-A014 382
Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary.
AD-A028 374
Industrial Management Survey of AFEES Operations. Volume 2. Findings, Conclusions, and Recommendations.
AD-A028 375
Design to Cost of Advanced Lightweight Torpedo.
AD-A028 467
Issues and Problems in Life Cycle Costing in DOD Major Systems Acquisition.
AD-A028 951
Design to Cost and Life Cycle Costing: Complementary or Dichotomous.
AD-A029 255
The Dilemma of Uncertainties Associated with Cost Estimating in the Project Management Office.
AD-A029 274
A Historical Analysis of Total Package Procurement, Life Cycle Costing, and Design to Cost.
AD-A030 141
Military Construction Supervision and Administration Cost Forecasts.
AD-A040 742
Interactive Computer Graphics: A Responsive Planning and Control Tool for DoD Program Management.
AD-A041 798
The Impact of Independent Cost Analyses on DOD Acquisition Management.
AD-A042 780
Analysis of the Cost Center Performance Measurement System.
AD-A044 099
Plant Equipment Package (PEP) Modernization Program. Volume 7. PEP Economic model.
AD-A045 503
Supervision and Administration Cost/Rate Forecasting System. Volume I. User's Manual.
AD-A053 229
Army Club Management Study 1977. Volume II. Appendices.
AD-A059 767
Identification and Definition of the Management Cost Elements for Contractor Furnished Equipment and Government Furnished Equipment.
AD-A061 300
Methodology for Control of Life Cycle Costs for Avionics Systems.
AD-A069 973
A Cost Management Control Procedure for Initial Training in Surface Ship Acquisition Programs.
AD-A070 037
Analysis of the Cost of Variable Workloads on Shipbuilding.
AD-A077 331
Costs and Decision-Making Processes in Non-Profit, General-Purpose Hospitals.
AD-A078 155
Rate Stabilization and Its Impact on U. S. Naval Shipyards.

AD-A081 146

MILITARY PROCUREMENT
A Case Study of the Usefulness of the Cost/Schedule Control System Criteria (C/SCSC).
AD- 923 129

*MANAGEMENT TRAINING
Training Package: Foreign Military Sales (FMS) Agreements (Planning and Costing).
AD-A042 771
A Cost Management Control Procedure for Initial Training in Surface Ship Acquisition Programs.
AD-A070 037

*MANDRELS
Methodology for Producing Low Cost/Disposable Mandrels.
AD-A081 990

*MANPOWER
Revised Manning Requirements and Personnel Cost Savings for the Leased LDMX/NAVCOMPARS Systems.
AD- 783 532
Considering the Cost of DOD personnel: A Look at Some Issues Requiring Further Analysis.
AD- 786 581
Automatic Testing, A Tool for Improving Fleet Readiness.
AD-A022 307
Navy Medical Care Study. Planning and Programming. Appendices.
AD-A022 787
Navy Medical Care Study: Planning and Programming.
AD-A022 788
Navy Medical Care Study: Alternatives to a Physician Shortfall.
AD-A022 789
Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary.
AD-A028 374
Industrial Management Survey of AFEES Operations. Volume 2. Findings, Conclusions, and Recommendations.
AD-A028 375
Demonstration Model System. Volume I. Mathematical Models.
AD-A073 968
DOD 'Total Force Management' -- Fact or Rhetoric.
AD-A077 264

*MANPOWER UTILIZATION
AMOSIST Program Field Evaluation Physician Savings and Cost Effectiveness.
AD-A061 146
Documentation of Analytical Services Provided in Support of Navy Enlisted Personnel Projections for POM-80.
AD-A063 529

*MANUALS
Systems Approach to Life-Cycle Design of Pavements. Volume I. LIFE2 User's Manual.
AD-A061 157

*MANUFACTURING
Investigation of the Cost/Effectiveness of Numerical Control Manufacture of Quick Reaction Spare Parts.
AD-A024 749
Applications of Manufacturing Cost Analysis and Prediction System to the Production of the M13 Tracer.
AD-A025 019
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume I. Study Synopsis.
AD-A045 162
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume II. A Candidate Electronics Manufacturing Technology Plan.
AD-A045 163
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume III. Appendices.
AD-A045 164
Production Engineering Program to Develop Improved Mass-Production Process for M42/M46 Grenade Bodies.
AD-A052 278
Briefing on Manufacturing Technology (MT) Cost Driver Analysis Program to Naval Air Systems Command, Department of the Navy, Washington, D.C..
AD-A080 962

*MAPPING(TRANSFORMATIONS)
Isoquants of Continuous Production Correspondences.
AD-A014 387

*MARINE CORPS TRAINING
A Cost-Benefit Analysis of the Proposed Consolidation of All Navy and Marine A6-E Fleet Replacement Training Squadrons.
AD-A064 996

*MARINE TERMINALS
Petroleum Transportation Systems Study. Chapter III. Port Costs.
AD-A012 807
Petroleum Transportation Systems Study. Chapter V. Refinery Operating Costs.
AD-A012 809

*MARINE TRANSPORTATION
Winter Rate Study for Great Lakes-St. Lawrence Seaway System. Volume I.
AD-A021 210

*MARKOV PROCESSES
A Theory for Semi-Markov Decision Processes with Unbounded Costs and Its Application to the Optimal Control of Queueing Systems.

AD-A030 649

*MASS SPECTROMETERS
Dual Column Operation for Gas Chromatograph-Mass Spectrometer.
AD-A034 309

*MASS SPECTROMETRY
Dual Column Operation for Gas Chromatograph-Mass Spectrometer.
AD-A034 309

*MASS TRANSPORTATION
Computation of the Optimal Average Cost Policy for the Two Terminal Shuttle.
AD-A060 912

*MATERIALS
An Evaluation of Material Cost Escalation Impact on Proposals at Boeing Wichita.
AD-A023 530

*MATHEMATICAL ANALYSIS
Computer Program For Design and Performance Analysis of Navigation-Aid Power Systems Program Documentation. Volume II - User's Manual.
AD-A047 356
SEEK IGLOO Life Cycle Cost Model. Volume I. Cost Element Equations.
AD-A057 444

*MATHEMATICAL MODELS
Modified Cost Estimating Model for 20mm - 40mm Automatic Cannon Ammunition Initial Production Facilities.
AD-A024 556
Computer Model for Life Cycle Costing. User's Guide.
AD-A042 405
SEEK IGLOO Life Cycle Cost Model. Volume I. Cost Element Equations.
AD-A057 444
Methodology for Establishing Equipment Utilization Standards.
AD-A058 559
Demonstration Model System. Volume I. Mathematical Models.
AD-A073 968

*MATHEMATICAL PREDICTION
Application of a Bayesian Approach to Updating Airframe CERs.
AD-A077 064

*MATHEMATICS
A Survey of Methods of Teaching Mathematics.
AD- 775 281

*MEDICAL EQUIPMENT
Comparative Analysis of Capital Equipment Budgeting Systems in Health Care Institutions.
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*MEDICAL PERSONNEL
Navy Medical Care Study: Planning and Programming.
AD-A022 788
Navy Medical Care Study: Alternatives to a Physician Shortfall.
AD-A022 789
AMOSIST Program Field Evaluation Physician Savings and Cost Effectiveness.
AD-A061 146

*MEDICAL SERVICES
Naval Medical Care Study: Costs and Economic Efficiency.
AD- 782 569
Navy Medical Care Study. Planning and Programming. Appendices.
AD-A022 787
Navy Medical Care Study: Planning and Programming.
AD-A022 788
Navy Medical Care Study: Alternatives to a Physician Shortfall.
AD-A022 789
A National Health Program.
AD-A023 881
The Cost of Caring.
AD-A046 810

*MEDICINE
COSTS
On the Existence of Relative Moral Hazard.
AD- 767 698

*MEETINGS
Proceedings of a Symposium on the High Cost of Software Held at the Naval Postgraduate School, Monterey, California, on September 17-19, 1973.
AD- 777 121
Decision Theory Research.
AD- 779 861
Cost Benefits of Navy Recreation: Summary of a Conference Held at the Smithsonian Institution on December 1973.
AD- 784 499
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AD- 787 195
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting Held at Cambridge, Mass., on 19 August 1974.
AD- 787 220
Air Force Human Resources Laboratory Military Personnel Costing Conference.
AD-A013 171
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (5th) Held at Redondo Beach, California on 19 November 1974.
AD-A014 108
Proceedings of the Annual Department of Defense Cost Analysis Symposium (9th) Held at Airlie.

Virginia on 22-25 September 1974 and Hosted by the Comptroller of the Air Force.
AD-A019 185
Summary Notes of a Government/Industry Software Sizing and Costing Workshop.
AD-A026 964
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems Quarterly Meeting (6th) Held at St. Petersburg, Florida, on 25-27 February 1975.
AD-A031 770

*MEMORY DEVICES
Intelligence System Designer's Memory Evaluation Program.
AD- 771 793

*MERCHANT VESSELS
Life Cycle Cost Analysis of Merchant Ship Expeditionary Logistic Facilities.
AD- 773 014

*METHODOLOGY
Methodology for Producing Low Cost/Disposable Mandrels.
AD-A081 990

*MICROCIRCUITS
Hybrid Technology Cost Reduction and Reliability Improvement Study.
AD-A062 247
Hybrid Technology Cost Reduction Improvement Study Program. Volume I. Results of Literature Search and Questionnaire Survey.
AD-A062 406
Hybrid Technology Cost Reduction Improvement Sudy Program. Volume II. Abstracts of Articles on Hybrid Microcircuits.
AD-A062 407
Low Cost Components: Selection and Acquisition of Microelectronic Devices.
AD-A067 667

*MICROELECTRONICS
Low Cost Components: Selection and Acquisition of Microelectronic Devices.
AD-A067 667

*MICROFILM
Cost Benefits Study - Interim 16mm Microfilm Container and Reel Assembly.
AD- 776 962

*MICROPROCESSORS
Reliability, Maintainability, Strategic Reliability, and Life Cycle Cost Comparison Analysis of Three Alternative Mk 71 Mod 0 Gun Mount Control System Designs.
AD-A061 148
Low Cost, Low Power Dissipation Micro-Signal Processor for Acoustic Signal Processing.
AD-A080 808

*MICROWAVE AMPLIFIERS
Low-Cost, Crossed-Field Amplifier Meanderline Circuit Concepts.
AD-A061 147
I/J Band Low-Cost Crossed-Field Amplifier.
AD-A063 928

*MICROWAVE EQUIPMENT
Cost-Effective GaAs Read IMPACT Transmitters.
AD-A044 034
Cost-Effective GaAs Read IMPATT Transmitters.
AD-A056 996

*MILITARY AIRCRAFT
Directed Licensing: An Evaluation of a Proposed Technique for Reducing the Procurement Cost of Aircraft.
AD-A007 064
Microeconomic Theory Applied to Parametric Cost Estimation of Aircraft Airframes.
AD-A020 210
Aircraft Airframe Cost Estimation by the Application of Joint Generalized Least Squares.
AD-A020 228
On the Reduction of Operating and Support Costs of Air Force Aircraft.
AD-A023 834
Reducing Support Costs and Improving Reliabilities/Availabilities of Air Force Aircraft Equipment.
AD-A023 835
On High Support Costs and Poor Reliabilities in Air Force Aircraft Equipments.
AD-A023 836
A Computer Model for Estimating Development and Procurement Costs of Aircraft (DAPCA-III).
AD-A025 276
Aircraft System Operating and Support Costs: Guidelines for Analysis.
AD-A039 369
An Appraisal of Models Used in Life Cycle Cost Estimation for USAF Aircraft Systems.
AD-A064 333

*MILITARY APPLICATIONS
Electronics-X: A Study of Military Electronics with Particular Reference to Cost and Reliability. Volume 2: Complete Report.
AD-A001 065

*MILITARY ASSISTANCE
Foreign Military Sales. Construction of a Replacement Price (Some Considerations, Problems and Potential Solutions).
AD-A037 384
Foreign Military Sales (FMS): Costs, Benefits, and a New Approach.
AD-A039 922
Pricing for U.S. Army Technical Assistance Field Teams (TAFT).
AD-A078 279

*MILITARY BUDGETS
Guide for Monitoring Contractors Indirect Costs.
AD- 772 078
Guide for Monitoring Contractors' Indirect Cost.
AD-A009 951
Capital/Labor Substitution and Factor Price Ratios in a Military Service: A Study of Defense Resource Allocation.
AD-A019 190
Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary.
AD-A028 374
Industrial Management Survey of AFEES Operations. Volume 2. Findings, Conclusions, and Recommendations.
AD-A028 375

*MILITARY ENGINEERING
Military Construction Engineering and Design Cost Forecasts.
AD-A035 262

*MILITARY EQUIPMENT
Investigation of the Impact of Rent-Across-the-Board.
AD- 775 233
The Contractual Implications of the Design-to-Cost Concept.
AD- 777 457
Production Rate and Production Cost.
AD-A009 074

*MILITARY FACILITIES
Investigation of the Impact of Rent-Across-the-Board.
AD- 775 233
Analysis of Overhead Cost for a Defined Cost Center in the Lake City Army Ammunition Plant Using Regression Analysis.
AD- 786 502
Workload Analysis of a Military Repair Depot.
AD-A020 363
General Guidance for Cost Analysis of Commercial and Industrial-Type Real Property Maintenance Activities.
AD-A024 140
Consolidation of RPMA at Fayetteville, N. C. Volume I. Executive Summary for the Study of Consolidation of RPMA in the Fayetteville, N. C. Area.
AD-A033 754
Consolidation of RPMA at Fayetteville, NC. Volume IV. General Procedures for Conducting RPMA Consolidation Studies.
AD-A041 331
The Value of the Base Level Industrial Engineer.
AD-A074 394
US Army, Air Force, and Navy RPMA Consolidation in Panama. A cost-Benefit Analysis. Volume I.
AD-A077 165
US Army, Air Force, and Navy RPMA Consolidation in Panama. A cost-Benefit Analysis. Volume II.
AD-A077 166

*MILITARY FORCES(FOREIGN)
Foreign Military Sales. Construction of a Replacement Price (Some Considerations, Problems and Potential Solutions).
AD-A037 384

*MILITARY LAW
Optimizing the Cost Effectiveness of Military Corrections: An Assessment of Program Evaluations and Related Data.
AD-A058 575

*MILITARY MEDICINE
Cost-Performance Relationships for Use with the Uniform Chart of Accounts for Militart Medical Treatment Facilities.
AD-A068 577

*MILITARY OPERATIONS
An Analysis of Major Training Area Operations in V Corps, US Army Europe.
AD-A047 126

*MILITARY PERSONNEL
Cost of Living Adjustment for Military Personnel.
AD- 778 634
Estimating the Cost of On-the-Job Training in Military Occupations: A Methodology and Pilot Study.
AD- 783 936
Air Force Human Resources Laboratory Military Personnel Costing Conference.
AD-A013 171
Review of Permanent Change of Station Travel Entitlements.
AD-A030 348
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix D. Military Personnel and Training Costs.
AD-A067 194

*MILITARY PLANNING
Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary.
AD-A028 374
Industrial Management Survey of AFEES Operations. Volume 2. Findings, Conclusions, and Recommendations.
AD-A028 375
Acquiring Affordable Weapons Systems.
AD-A042 777

*MILITARY PROCUREMENT
Cost Benefits Study - Interim 16mm Microfilm Container and Reel Assembly.
AD- 776 962
The Applicability of 'Should Cost' to the Procurement Process.
AD- 777 867
A Quantitative Examination of

Cost-Quantity Relationships, Competition during Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume I. Executive Summary.
AD- 778 612
A Quantitative Examination of Cost-Quantity Relationships, Competition During Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume II.
AD- 784 335
A Cost Growth Model for Weapon System Development Programs.
AD- 785 438
Bias in Initial Cost Estimates: How Low Estimates Can Increase the Cost of Acquiring Weapon Systems.
AD- 787 395
Parametric Cost Estimating with Applications to Sonar Technology.
AD- 787 425
Telecommunications Equipment Low-Cost Acquisition Method (TELCAM).
AD-A001 713
Managing Cost Overrun Engineering Change Proposals.
AD-A009 183
The Higher Costs of Buying Less.
AD-A009 931
Economic Escalation and the Military Program Manager.
AD-A026 557
An Objective Functional Approach to Structuring Contractual Performance Incentives.
AD-A028 487
Issues and Problems in Life Cycle Costing in DOD Major Systems Acquisition.
AD-A028 951
Design to Cost and Life Cycle Costing: Complementary or Dichotomous.
AD-A029 255
A Historical Analysis of Total Package Procurement, Life Cycle Costing, and Design to Cost.
AD-A030 141
Procoedings of OSD Aircraft Engine Design and Life Cycle Cost Seminar, Held at Naval Air Development Center Warminster, Pennsylvania November 19, 20, and 21, 1975.
AD-A030 548
Life-Cycle Costing. A Selected Bibiliography.
AD-A030 554
Parametric Cost Estimating.
AD-A039 563
Combat Vehicle System Operating and Support Costs: Guidelines for Analysis.
AD-A041 508
Training Package: Foreign Military Sales (FMS) Agreements (Planning and Costing).
AD-A042 771
Strategic Implications of the Experience Curve Effect for Avionics Acquisitions by the Department of Defense.
AD-A046 006
The AGOR-21 Class Oceanographic Research Ships: An Acquisition Analysis.
AD-A053 872
The Pentagon 'Four-Step'.
AD-A053 963
Inhibitors to the Use of Life Cycle Costing: Results of a Survey of Military/Industrial Managers.
AD-A072 553
Cooperative Logistics Supply Support Arrangement Pricing Relationships Between Programmed and NOnprogrammed Requisitions.
AD-A075 587
The Effect of Price Competition on Weapon System Acquisition Costs.
AD-A078 232

MANAGEMENT PLANNING AND CONTROL
A Case Study of the Usefulness of the Cost/Schedule Control System Criteria (C/SCSC).
AD- 923 129

*MILITARY RESERVES
Naval Reserve Annual Operating Costs.
AD-A022 115
The Training Division: A Good Investment.
AD-A024 389
Cost-Benefit Analysis of Training a Naval Reserve Seabee.
AD-A062 195

*MILITARY SUPPLIES
A Cost-Effectiveness Model, Choice through Preferences.
AD-A006 205
Commercial Holding Cost Differential between Dry Storage and Controlled Cold Storage for Meal, Combat, Individual (MCI).
AD-A034 192

*MILITARY TRAINING
Cost and Efficiency in Military Specialty Training.
AD- 786 652
The Training Division: A Good Investment.
AD-A024 389
An Analysis of Major Training Area Operations in V Corps, US Army Europe.
AD-A047 126
The RDT and E Program of the DoD on Training, FY 1977.
AD-A047 391
Some Considerations in Analyzing Training Costs and Job Performance.
AD-A054 954
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix D. Military Personnel and Training Costs.
AD-A067 194
Cost-Effectiveness of Computer-Based Instruction in Military Training.
AD-A073 400

*MILITARY VEHICLES
An Evaluation of the Replacement Criteria for Select Air Force Commercial General Purpose Motor

Vehicles.
AD- 785 455

•MINICOMPUTERS
A Low-Cost, General Purpose Data Acquisition and Control System for the PDP-11 Minicomputer.
AD-A050 224

•MINING ENGINEERING
Cost and Feasibility Evaluation for the Excavation of Large Hemispherical Cavities in Rainier Mesa.
AD-A067 2'8

•MODELS
A Conceptual Model of the Department of Defense Major System Acquisition Process.
AD-A059 183

•MODIFICATION
The Affect of Nipics on the F4-B to N Conversion Program.
AD- 777 256
Product Improvement Program Evaluation.
AD-A042 134

•MODULAR CONSTRUCTION
Industrialized Building Construction Time/Cost Model - First Quarter FY 76 Results.
AD-A023 750
A General Warehouse Module Conceptual Design and Cost Analysis. Volume II. Main Text and Appendices.
AD-A031 384
A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary.
AD-A031 843
Multilevel Modularization of Systems to Minimize Life Cycle Cost.
AD-A061 636

•MODULES(ELECTRONICS)
Standard Electronic Module Radar Life Cycle Cost Comparison.
AD-A071 110

•MONITORING CONTRACTS
A Case Study of the Usefulness of the Cost/Schedule Control System Criteria (C/SCSC).
AD- 923 129

•MORALE
An Economic Analysis of Lay-Offs.
AD-A026 386

•MORTARS
Logistical Simulation Model for the Light Weight Company Mortar: A Technique for Computing Support Cost and Operational Availability.
AD-A003 230

•MOTIVATION
A Performance-Contingent Reward System That Uses Economic Incentives: Preliminary Cost-Effectiveness Analysis.
AD-A050 830

•MULTIPROCESSORS
Scheduling Tasks with Exponential Service Times on Nonidentical Processors to Minimize Various Cost Functions.
AD-A062 471

•MUNITIONS INDUSTRY
Plant Equipment Package (PEP) Modernization Program. Volume 7. PEP Economic model.
AD-A045 503

•NAVAL AIRCRAFT
Auditing Cost-Effectiveness Analyses of Technological Changes.
AD- 776 539
Naval Aircraft Operating and Support Cost Model - FY76 Revision.
AD-A053 180
Naval Aircraft Operating and Support Cost-Estimating Model - FY77 Revision.
AD-A068 175

•NAVAL BUDGETS
Super: MPN Expenditure Estimating.
AD-A037 391
Documentation of Analytical Services Provided in Support of Navy Enlisted Personnel Projections for POM-80.
AD-A063 529

•NAVAL EQUIPMENT
Navy Reliability and Maintainability Policy Study.
AD-A007 437
Maintenance Costs of Complex Equipment.
AD-A071 473
Manufacturing Technology Cost Drivers Study of Aircraft Rework, Overhaul and Remanufacture Processes. Volume I.
AD-A078 004

INVENTORY CONTROL
Application of the Penalty Cost Model to Centrally Managed Items.
AD- 768 731

NAVY BUDGETS
Analysis of Criteria for Changing Standard Prices.
AD- 767 090

•NAVAL GUNS
Reliability, Maintainability, Strategic Reliability, and Life Cycle Cost Comparison Analysis of Three Alternative Mk 71 Mod 0 Gun Mount Control System Designs.
AD-A061 148

•NAVAL LOGISTICS
Navy Systemwide Stock Rationing.
AD- 771 354
The Organizational Impact of C/SCSC Upon the Supervisor of Shipbuilding.

AD-A009 907
Visibility and Management of Support Costs - Ships (VAMOSC II).
AD-A030 782
An Operating and Support Cost Model for Aircraft Carriers and Surface Combatants.
AD-A044 744
Conventional AS Load List Study.
AD-A045 461

•NAVAL OPERATIONS
Cost Estimating Study, an Abstract of Activities Performed in 1974.
AD-A014 349

LOGISTICS
An Approach to the Allocation of Common Costs of Multi-Mission Systems.
AD- 766 624

•NAVAL PERSONNEL
Cost Benefits of Navy Recreation: Summary of a Conference Held at the Smithsonian Institution on December 1973.
AD- 784 499
Estimating the Marginal Balance of Payments Cost of Overseas Homeporting.
AD-A000 783
Alcoholism in the Navy: A Cost Study.
AD-A009 910
The Feasibility of a Geographic Pay Supplement for CONUS Military Personnel.
AD-A032 797
Budgets MPN Expenditure Estimating.
AD-A037 391
Cost and Retention Impacts of the Navy's Conus Recreation Program.
AD-A038 654

•NAVAL PLANNING
Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis.
AD-A013 477

•NAVAL PROCUREMENT
Navy Weapon System Life-Cycle Cost Model.
AD-A003 905
Analysis of Proposed Stock Range Rules.
AD-A009 120
The Requirements Determination Process for Naval Weapon Systems: An Organizational Analysis.
AD-A009 971
The Possible Application of Numerically Controlled Manufacturing to Navy Supply System Procurement.
AD-A012 636
The U.S. Navy Foreign Military Sales Program
AD-A026 559
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Executive Summary.
AD-A046 976
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command.
AD-A046 977
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Appendices.
AD-A046 978
Modeling Navy Ship Acquisition.
AD-A080 089
Manpower/Hardware Life Cycle Cost Analysis Study.
AD-A081 513

NAVAL AIRCRAFT
Estimating Aircraft Acquisition Costs by Parametric Methods.
AD- 913 440

•NAVAL RESEARCH LABORATORIES
Rate Stabilization at Navy Industrial Fund Research and Development Activities.
AD-A035 889
Rate Stabilization at Navy Industrial Fund Research. Development. Test and Evaluation Activities.
AD-A057 992

•NAVAL SHORE FACILITIES
Alternative Strategies for Optimizing Energy Supply. Distribution. and Consumption Systems on Naval Bases. Volume I: Near-Term Strategies.
AD- 777 471
Alternative Strategies for Optimizing Energy Supply. Distribution. and Consumption Systems on Naval Bases. Volume II. Advanced Energy Conservation Strategies.
AD- 766 757
Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis.
AD-A013 477

•NAVAL TACTICAL DATA SYSTEMS
Cost Estimating Study. an Abstract of Activities Performed in 1974.
AD-A014 349

•NAVAL TRAINING
Efficiency Indicators for Education and Training.
AD-A028 854
A Study to Develop Management Indices for the Chief of Naval Education and Training. Phase II - Capital Resource Indices.
AD-A029 195
Academic Attrition from Navy Technical Training Class 'A' School Courses.
AD-A044 029
Cost-Benefit Analysis of Training a Naval Reserve Seabee.
AD-A062 195
A Cost-Benefit Analysis of the Proposed Consolidation of All Navy and Marine A6-E Fleet Replacement Training Squadrons.
AD-A064 996

A Cost Management Control Procedure for Initial Training in Surface Ship Acquisition Programs.
AD-A070 037

*NAVAL VESSELS
Study of Commercial Specifications for U. S. Navy Ships.
AD- 777 130
Estimating the Marginal Balance of Payments Cost of Overseas Homeporting.
AD-A006 783
The Impact of Ship Design Margins.
AD-A015 638
Marginal Cost Factors for Surface Combatant Ships.
AD-A022 311
Visibility and Management of Support Costs - Ships (VAMOSC II).
AD-A030 782
Ship operating and Support Costs: Guidelines for Analysis.
AD-A040 447
An Operating and Support Cost Model for Aircraft Carriers and Surface Combatants.
AD-A044 744
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Executive Summary.
AD-A046 976
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command.
AD-A046 977
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Appendices.
AD-A046 978
Maintenance Costs of Complex Equipment.
AD-A071 473

*NAVIGATION
Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume II.
AD-A058 228
Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume I.
AD-A058 272

*NAVIGATIONAL AIDS
River and Harbor Aid to Navigation System (RIHANS) Phase 1-C; System Definition. Volume IV. Cost.
AD- 780 986

*NAVIGATORS
The Aviation Career Incentive Act of 1974: An Analysis of Short-Range Results in the United States Air Force, 1974-1977.
AD-A058 335

*NAVY
Naval Reserve Annual Operating Costs.
AD-A022 115

*NAVY BUDGETS
NAVAL EQUIPMENT
Analysis of Criteria for Changing Standard Prices.
AD- 767 090

*NETWORK ANALYSIS(MANAGEMENT)
Optimal Project Compression with Due-Dated Events.
AD-A073 781

*NEW YORK
Binghamton Wastewater Management Study. Design and Cost Appendix.
AD-A036 830

*NIGHT WARFARE
A Logistic/Cost-Effectiveness Model for Flares.
AD-A007 121

*NOISE REDUCTION
DC-9 Noise Retrofit Feasibility. Volume I. Lower Goal Noise. Performance and Cost Evaluation.
AD- 776 127
DC-9 Noise Retrofit Feasibility. Volume II. Upper Goal Noise. Performance and Cost Evaluation.
AD- 777 895
Cost Effectiveness of Alternative Noise Reduction Methods for Construction of Family Housing.
AD-A028 922
Construction-Site Noise Control Cost-Benefit Estimation Technical Background.
AD-A050 813
Construction-Site Noise Control Cost-Benefit Estimating Procedures.
AD-A051 737
Cost/Benefit Tradeoffs Available in Aircraft Noise Technology Applications in the 1980's.
AD-A082 028
Influence of Noise Reduction on Weight and Cost of General Aviation Propellers.
AD-A082 120

*NONLINEAR PROGRAMMING
Minimizing a Project Cost with Bounds on the Expectation and Variance of the Delay Time.
AD-A058 1[illegible]

*NONPARAMETRIC STATISTICS
Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties.
AD-A045 889

*NUCLEAR WARFARE
A Cost/Benefit Matrix Model of Nuclear Deterrence.
AD-A007 467

*NUMERICAL METHODS AND PROCEDURES
Investigation of the Cost/Effectiveness of Numerical Control Manufacture of Quick Reaction Spare Parts.
AD-A024 749

*OFFICER PERSONNEL
COSTS
Military Occupational Specialty Training Cost Handbook (MOSB).

Volume II. Commissioned and Warrant Officers MOS's.
AD- 920 774

*OIL POLLUTION
A Fee Collection Mechanism for the Oil Pollution Liability and Compensation Legislation.
AD-A061 403

*OIL SPILLS
An Examination of Alternative Methods for Employing Booms to Contain Oil Spills in Navy Harbors.
AD- 783 790
A Fee Collection Mechanism for the Oil Pollution Liability and Compensation Legislation.
AD-A061 403

*OILS
Life Cycle Cost Study of Army Spectrometric Oil Program (ASOAP).
AD- 786 501

*OPERATIONAL EFFECTIVENESS
Product Improvement Program Evaluation.
AD-A042 134

*OPERATIONAL READINESS
Logistical Simulation Model for the Light Weight Company Mortar: A Technique for Computing Support Cost and Operational Availability.
AD-A003 230

*OPERATIONS RESEARCH
A Mean Cost Approximation for Transportation Problems with Stochastic Demand.
AD-A013 711
A Hierarchical Approach to Production Planning.
AD-A039 947
Some Results on An 'Income Fluctuation Problem'.
AD-A020 289
Minimizing the Cost of Completing a Project Subject to a Bound on the Expected Delay Time.
AD-A027 882
Computation of the Optimal Average Cost Policy for the Two Terminal Shuttle.
AD-A060 912
Cost-Driver Analysis for Computerized Production Process Planning.
AD-A074 054
Statistical Risk Properties of the Logistic Support Cost Commitment.
AD-A060 196

*OPTICAL CHARACTER RECOGNITION
Criteria for Evaluating the Cost Effectiveness of Optical Character Recognition Equipment in Base Telecommunications Centers.
AD- 787 197

*OPTICAL COMMUNICATIONS
Fiber- and Integrated-Optic Communication Technology.
AD- 771 402
Life Cycle Costing of an Emerging Technology: The Fiber Optics Case.
AD-A031 839

*OPTICAL MATERIALS
An Approach to the Estimation of Life Cycle Costs of a Fiber-Optic Application in Military Aircraft.
AD-A019 379

*OPTIMIZATION
Making Better Use of Optimization Capability in Distribution System Planning.
AD-A058 273
Optimization of a Computer Security Index Versus Cost.
AD-A062 003

*OXYGEN
ELECTRODES
Low Cost Oxygen Electrodes.
AD- 769 905

*PACKAGING
Evaluation of Polypropylene and Polyethylene Cushion Wrap Materials.
AD-A039 089

*PARACHUTE DESCENTS
Slow Descent Recovery System Technology Study and Data Program.
AD- 783 268

*PASSENGER AIRCRAFT
DC-9 Noise Retrofit Feasibility. Volume II. Upper Goal Noise. Performance and Cost Evaluation.
AD- 777 895

*PASSENGER VEHICLES
The Feasibility of a Fare Bus System for Work-Commuting at Wright-Patterson AFB, Ohio.
AD-A030 296

*PATROL CRAFT
Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis.
AD-A013 477

*PAVEMENTS
Systems Approach to Life-Cycle Design of Pavements. Volume I. LIFE2 User's Manual.
AD-A061 157
Systems Approach to Life-Cycle Design of Pavements. Volume III. LIFE2 Program Listing.
AD-A064 698
Systems Approach to Life-Cycle Design of Pavements. Volume II. LIFE2 System Documentation.
AD-A067 691
Nondestructive Evaluation of Airport Pavements. Volume II. Operation Manual for PAVBEN Program at TCC.
AD-A079 495

*PERCEPTION(PSYCHOLOGY)
Costs and Payoffs in Perceptural Research.
AD- 770 556

*PERSONNEL
A Method for Least-Cost Scheduling of Personnel through Training Course Sequences.
AD- 783 629

*PERSONNEL MANAGEMENT
Manpower Cost Reduction in Electronics Maintenance: Framework and Recommendations.
AD- 784 444
DOD 'Total Force Management' -- Fact or Rhetoric.
AD-A077 264

*PERSONNEL RETENTION
Cost Effectiveness Analysis of Bonuses and Reenlistment Policies (CEABREP).
AD-A042 904

*PERT
Incorporating Project Cost Considerations into Stochastic PERT (Project Evaluation and Review Technique).
AD-A025 021
Project Scheduling with Discontinuous Piecewise Convex Activity Cost Functions.
AD-A060 500

*PETROLEUM INDUSTRY
Petroleum Transportation Systems Study. Chapter III. Port Costs.
AD-A012 807
Petroleum Transportation Systems Study. Chapter V. Refinery Operating Costs.
AD-A012 809

*PHASED ARRAYS
Study of Comparative Costs for Far-Field Antenna Patterns Determined by Near-Field Measurements and by Far-Field Measurements.
AD- 775 472

HYDROFOIL CRAFT
Multifrequency Arrays: Design and Cost Considerations.
AD-B006 333

*PHYSICIANS
AMOSIST Program Field Evaluation Physician Savings and Cost Effectiveness.
AD-A061 146

*PILOTS
The Aviation Career Incentive Act of 1974: An Analysis of Short-Range Results in the United States Air Force, 1974-1977.
AD-A058 335

*PIPELINES
Production of Pipes and Assembly of Pipelines and Pipe Systems on Ships (Izgotovleniye i Montazh Sudovykh Truboprovodov i Sistem).
AD-A044 295

*PIPES
Production of Pipes and Assembly of Pipelines and Pipe Systems on Ships (Izgotovleniye i Montazh Sudovykh Truboprovodov i Sistem).
AD-A044 295

*PLANNING
Making Better Use of Optimization Capability in Distribution System Planning.
AD-A058 273

*PLANNING PROGRAMMING BUDGETING
Development of Cost Escalation Indexes for Operation and Maintenance Budget Categories.
AD-A061 817
Cost-Benefit Analysis Applied to the Program Objectives Memorandum (POM).
AD-A063 619

*POLICIES
Cost Considerations in Policy Analysis.
AD-A022 191

*POLITICAL SCIENCE
The Opportunity Cost of the Nonmonetary Advantages of the Soviet Military R and D Effort.
AD-A028 088

*POLLUTION ABATEMENT
Coal Gasification Study Handbook.
AD-A042 385

*POLYETHYLENE PLASTICS
Evaluation of Polypropylene and Polyethylene Cushion Wrap Materials.
AD-A039 089

*POLYPROPYLENE
Evaluation of Polypropylene and Polyethylene Cushion Wrap Materials.
AD-A039 089

*POSTAGE METERS
Evaluation of Postage Meters and Decentralized Accountability for Official Mail Costs.
AD-A073 003

*POWER AMPLIFIERS
Cost-Effective GaAs Read IMPACT Transmitters.
AD-A044 034
Low-Cost, Crossed-Field Amplifier Meanderline Circuit Concepts.
AD-A061 147

*POWER PLANTS(ESTABLISHMENTS) HEAT SINKS
Earth Heat Sinks for Underground Power Sources.
AD- 768 292

*POWER SUPPLIES
Computer Program for Design and Performance Analysis of Navigation-Aid Power Systems Program Documentation. Volume II - User's Manual.
AD-A047 356

*PREDICTIONS
Predictive Operations and Maintenance Cost Model. Volume I.
AD-A078 052

*PREPROCESSING
A Pre-Processor for a Structured Version of COBOL.
AD-A045 415

*PRESSURE GAGES
Feasibility and Cost Effectiveness of Airborne Tire Pressure Indicating Systems.
AD-A065 513

*PRICE INDEX
Price Indexes for Soviet 13-Sector Input-Output Tables for 1959-1975.
AD-A059 169
Deflation of the 18 Sector Soviet Input-Output Tables.
AD-A059 283
An Analysis of Forward Pricing Rates and Their Effectiveness in Indirect Cost Management.
AD-A059 307
Are Dual Variables Prices. If Not, How to Make Them More So.
AD-A060 819
A Parametric Linear Complementarity Technique for the Computation of Equilibrium Prices in a Single Commodity Spatial Model.
AD-A066 518

*PRINTED CIRCUIT BOARDS
Printed Wiring Board Production Assembly Cost Guidelines Manual.
AD-A026 944

*PRINTED CIRCUITS
Federal Aviation Administration Printed Circuit Board Analysis-Cost Vs. Benefit Study.
AD- 781 857
PWB Production Assembly Cost Guidelines (U).
AD-A016 962

*PROCESSING EQUIPMENT
Low Cost, Low Power Dissipation Micro-Signal Processor for Acoustic Signal Processing.
AD-A080 808

*PROCUREMENT
Guidelines for Preparing Economic Analysis for Army Aircraft Product Improvement Proposals.
AD- 776 938
An Analysis of the Inflationary Effects on Inventory Systems.
AD-A028 266
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume I. Study Synopsis.
AD-A045 162
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume II. A Candidate Electronics Manufacturing Technology Plan.
AD-A045 163
The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume III. Appendices.
AD-A045 164

*PRODUCTION
A Hierarchical Approach to Production Planning.
AD-A019 947
Ramjet Cost Estimating Handbook.
AD-A056 991
Methodology for Producing Low Cost/Disposable Mandrels.
AD-A081 990

*PRODUCTION CONTROL
An Analytical Approach to Optimizing Airframe Production Costs as a Function of Production Rate.
AD- 775 698
AMC Guide for Design to Unit Production Cost (DTUPC).
AD-A006 214

COSTS
Press Brake-Roll and Weld Fabrication of Prototype Large-Diameter Missile Motor Cases: production Cost Estimates.
AD- 766 342

*PRODUCTION ENGINEERING
Tables of Quaternary S-Curves Based on 67%-69% R and D Curves and 67%-99% Production Curves. Volume 1.
AD-A000 557
Tables of Quaternary S-Curves Based on 70%-72% R and D Curves and 67%-99% Production Curves. Volume 2.
AD-A000 558
Tables of Quarternary S-Curves Based on 73%-75% R and D Curves and 67%-99% Production Curves. Volume 3.
AD-A000 559
Tables of Quarternary S-Curves Based on 76%-99% Production Curves. Volume 4.
AD-A000 560
Tables of Quarternary S-Curves Based on 79%-81% R and D Curves and 67%-99% Production Curves. Volume 5.
AD-A000 561
Tables of Quaternary S-Curves Based on 82%-84% R and D Curves and 67%-99% Production Curves. Volume 6.
AD-A000 562
Tables of Quaternary S-Curves Based on 88%-90% R and D Curves and 67%-99% Production Curves. Volume 8.
AD-A000 564
Tables of Quaternary S-Curves Based on 97%-99% R and D Curves and 67%-99% Production Curves. Volume 11.
AD-A000 567
Tables of Quaternary S-Curves

Based on 85%-87% R and D Curves and 67%-99% Production Curves. Volume 7.
AD-A001 034
Tables of Quaternary S-Curves Based on 91%-93% R and D Curves and 67%-99% Production Curves. Volume 9.
AD-A001 035
Tables of Quaternary S-Curves Based on 94%-96% R and D Curves and 67%-99% Production Curves. Volume 10.
AD-A001 036
The Possible Application of Numerically Controlled Manufacturing to Navy Supply System Procurement.
AD-A012 636
Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model, Phase I.
AD-A021 075
Producibility Engineering and Planning (PEP).
AD-A035 671
Production of Pipes and Assembly of Pipelines and Pipe Systems on Ships (Izgotovleniye i Montazh Sudovykh Truboprovodov i Sistem).
AD-A044 295
Dynamic Theory of Production Correspondences. Part III.
AD-A057 951
Production Engineering Program to Develop Improved Mass-Production Process for M42/M46 Grenade Bodies.
AD-A058 278

*PRODUCTION RATE
Production Rate and Production Cost,
AD-A009 074
An Investigation of Changes in Direct Labor Requirements Resulting from Changes in Avionics Producion Rate.
AD-A077 725

*PROGRAMMING MANUALS
Army Life Cycle Cost Model; Programmer's Guide. Volume II.
AD-A035 168
SEEK IGLOO Life Cycle Cost Model. Volume III. Maintenance Manual.
AD-A058 632
SEEK IGLOO Life Cycle Cost Model. Volume II. User's Manual.
AD-A059 222
Venture Evaluation and Review Technique (VERT). Users'/Analysts' Manual.
AD-A078 656

*PROPELLER NOISE
Influence of Noise Reduction on Weight and Cost of General Aviation Propellers.
AD-A082 120

*PROTECTIVE EQUIPMENT
Break-Even Analysis of VADS, M163, Antenna Protection Device.
AD-A033 926

*PUBLIC HEALTH
Health Care Cost Sharing and Cost Containment.
AD-A032 220

*PUBLIC RELATIONS
The Cost of Caring.
AD-A046 810

*PUBLIC UTILITIES
The Move Towards Marginal Cost Pricing in Electricity.
AD-A037 920

*PURCHASING
Calculation of the Cost of Warranty Policies as a Function of Estimated Life Distributions.
AD-A001 015
Some Results on An 'Income Fluctuation Problem'.
AD-A020 289

*QUALITY ASSURANCE
Cost/Schedule Uncertainty Analysis for VADS Short-Range (RAM) Product Improvement Program.
AD-A039 813

*QUALITY CONTROL
Measurement of Technological Innovation by Firms.
AD-A021 712

*QUEUEING THEORY
A Difference Equation Approach to the Optimal Control of a Multiclass Queue with Discounted Costs.
AD-A017 658
Optimal Control of the M/G/1 Queueing System with Removable Server-Linear and Non-Linear Holding Cost Function.
AD-A030 646
A Theory for Semi-Markov Decision Processes with Unbounded Costs and Its Application to the Optimal Control of Queueing Systems.
AD-A030 649

*QUINOXALINES
Low-Cost Solvents for the Preparation of Polyphenylquinoxalines.
AD-A065 552

*RADAR ANTENNAS
Summary of Results of Antenna Design Cost Studies.
AD-A076 914
Break-Even Analysis of VADS. M163. Antenna Protection Device.
AD-A033 926

*RADAR STATIONS
SEEK IGLOO Life Cycle Cost Model. Volume II. User's Manual.
AD-A059 222
Unattended Radar Station Design for Dewline Application. Volume II.
AD-A059 510

*RADAR TRACKING
Synchronous Satellite Tracker Investigation.

AD- 773 848

*RADAR TRANSMITTERS
Cost Effective Solid State Transmitter Study.
AD-A028 965

*RADIATION HARDENING
The Nuclear Hardening of Army Tactical Systems: A Trade-Off Methodology.
AD-A063 514

*RADIO ANTIJAMMING
Low Cost Anti-Jam Digital Data-Links Techniques Investigations. Volume III.
AD-A082 328

*RADIO EQUIPMENT
Life Cycle Cost Model.
AD-A013 369
Low Cost Anti-Jam Digital Data-Links Techniques Investigations. Volume III.
AD-A082 328

COST ANALYSIS
VHF-FM Portion of the Single Channel Ground and Airborne Radio Subsystem Concept Formulation Package. Appendix IV. Cost and Operational Effectiveness Analysis.
AD-B009 251

*RADIO LINKS
ELF Communications SEAFARER Program. Site Survey, Michigan Region. Antenna Construction Cost Factors and Installation Plan.
AD-A036 405

*RADIO TRANSMITTERS
Cost-Effective GaAs Read IMPACT Transmitters.
AD-A044 034

*RAMJET ENGINES
Ramjet Cost Estimating Handbook.
AD-A056 991

*RANGE(DISTANCE)
A Round-Trip Location Problem on a Tree Graph.
AD-A028 666

*RATES
The Feasibility of a Fare Bus System for Work-Commuting at Wright-Patterson AFB, Ohio.
AD-A030 296
Rate Stabilization at Navy Industrial Fund Research, Development, Test and Evaluation Activities.
AD-A057 992

*RECOVERY
New Remotely Piloted Vehicle Launch and Recovery Concepts. Volume I. Analysis, Preliminary Design and Performance/Cost Trade Studies.
AD-A077 475

*RECREATION
Cost Benefits of Navy Recreation: Summary of a Conference Held at the Smithsonian Institution on December 1973.
AD- 784 499
Cost and Retention Impacts of the Navy's Conus Recreation Program.
AD-A038 654

*RECRUITERS
An Analysis of the Cost Implications of Employing Success Predictive Criteria in the Process of Selecting Navy Recruiters.
AD-A074 189

*RECRUITING
An Econometric Analysis of Volunteer Enlistments of Service and Cost Effectiveness Comparison of Service Incentive Programs.
AD-A001 033
An Analysis of the Cost Implications of Employing Success Predictive Criteria in the Process of Selecting Navy Recruiters.
AD-A074 189

*RECRUITS
The TPR Process and Impact of Fluctuations.
AD-A043 834

*REDUNDANT COMPONENTS
Redundant Spares Allocation to Reduce Reliability Costs-II.
AD- 780 908

SPARE PARTS
Redundant Spares Allocation to Reduce Reliability Costs.
AD- 768 363

*REENLISTMENT
Cost Effectiveness Analysis of Bonuses and Reenlistment Policies (CEABREP).
AD-A042 904

*REFINERIES
Petroleum Transportation Systems Study. Chapter III. Port Costs.
AD-A012 807
Petroleum Transportation Systems Study. Chapter V. Refinery Operating Costs.
AD-A012 809

*REFUELING IN FLIGHT
A Logistics Support Cost Analysis of the Advanced Aerial Refueling Boom.
AD-A032 274

*REGRESSION ANALYSIS
Cost-Estimating Relationships Using Linear, Log-linear and Non-linear Regression.
AD-A013 928

*REHABILITATION
Summary of Cost-Benefit Study Results for Navy Alcoholism Rehabilitation Programs.
AD-A042 795

*RELIABILITY
Navy Reliability and Maintainability Policy Study.
AD-A007 437
RMAC Analysis of CH-47 Helicopter.
AD-A016 117
Evaluation of F-16 Subsystem Options Through the Use of Mission Completion Success Probability and Designing to System Performance/Cost Models.
AD-A021 263
Proceedings of the Life Cycle Cost Task Group of the Joint Services Data Exchange for Inertial Systems, Quarterly Meeting held at San Diego, Calif. on 24-26 February 1976.
AD-A035 091
Reliability Trade-Offs for Unit Production Cost.
AD-A065 643

*RELIABILITY(ELECTRONICS)
Redundant Spares Allocation to Reduce Reliability Costs-II.
AD- 780 908
Reliability Acquisition Cost Study (II).
AD-A020 457
Cost Optimizing System to Evaluate Reliability (COSTER).
AD-A038 761
SATCOM 'EHF' Airborne Terminal Availability to Cost Analysis Demonstration.
AD-A076 163

OPTIMIZATION
Redundant Spares Allocation to Reduce Reliability Costs.
AD- 768 363

*REMOTE AREAS
Remoteness-Compensation Methodology for Benefit/Cost Establishment and Discontinuance Criteria.
AD-A043 836

*REMOTELY PILOTED VEHICLES
An Extension of Cost Estimating Relationships for Airframes of Remotely Piloted Vehicles.
AD-A003 352
Cost Estimating Relationships for Procurement Costs of Airborne Digital Computers and Inertial Measurement Units for Use in Remotely Piloted Vehicles.
AD-A003 353
New Remotely Piloted Vehicle Launch and Recovery Concepts. Volume I. Analysis. Preliminary Design and Performance/Cost Trade Studies.
AD-A077 475
COEFUV: A Computer Implementation of a Generalized Unmanned Vehicle Cost Model.
AD-A079 038

*REPAIR
Periodic Replacement with Minimal Repair at Failure and Adjustment Costs.
AD-A014 385
Overhaul/Rebuild Cost Study ARMCOM Items.
AD-A014 950
Predicted Crack Repair Costs for Aircraft Structures.
AD-A068 699

*REPLACEMENT
An Economic Analysis of the Relevant Costs in Air Force Building Replacement.
AD- 776 781
Implementing Replacement Cost Accounting.
AD-A036 177

*REPLACEMENT THEORY
An Evaluation of the Replacement Criteria for Select Air Force Commercial General Purpose Motor Vehicles.
AD- 785 455
Periodic Replacement with Minimal Repair at Failure and Adjustment Costs.
AD-A014 385
A Study of Opportunistic Replacement Tactics for Modular Jet Engine Management.
AD-A044 184

*REPLENISHMENT
Cost-Effectiveness Measures of Replenishment Strategies for Systems of Orbital Spacecraft.
AD-A081 859

*RESEARCH MANAGEMENT
An Overview of DoD Policy for and Administration of Independent Research and Development.
AD-A013 362
A Hierarchical Approach to Production Planning.
AD-A019 947
Rate Stabilization at Navy Industrial Fund Research and Development Activities.
AD-A035 889
A Compilation of Methodological Problems Confronting the Air Force in the Fields of Economics and Management. Phase I.
AD-A043 360
A General Technique for R and D Cost Forecasting.
AD-A046 105
Cost-Effectiveness of Potential Federal Policies Affecting Research and Development Expenditures in the Auto, Steel and Food Industries.
AD-A046 269
The RDT and E Program of the DoD on Training, FY 1977.
AD-A047 391
Complexity as a Factor of Quality and Cost in Large Scale Software Development.
AD-A081 604

*RESEARCH SHIPS
The AGOR-21 Class Oceanographic Research Ships: An Acquisition Analysis.
AD-A053 872

*RESOURCE MANAGEMENT
General Guidance for Cost Analysis of Commercial and Industrial-Type Real Property Maintenance Activities.
AD-A024 140
A Compilation of Methodological Problems Confronting the Air Force in the Fields of Economics and Management. Phase I.
AD-A043 360

*RESOURCES
Competitive Prices, Dynamic Programming under Uncertainty, a Nonstationary Case.
AD-A028 243

*RETENTION(GENERAL)
Cost and Retention Impacts of the Navy's Conus Recreation Program.
AD-A038 654
The Aviation Career Incentive Act of 1974: An Analysis of Short-Range Results in the United States Air Force, 1974-1977.
AD-A058 335

*RETIREMENT(PERSONNEL)
The Deterioration of Pension Plan Conditions in Large Corporations: The Need for More Extensive Disclosure.
AD-A021 944

*REVIEWS
A Generalized Analysis of the Performance of a Variety of Drive Systems for High Reynolds Number, Transonic, Wind Tunnels.
AD- 784 883

*RISK ANALYSIS
US Army Total Risk Assessing Cost Estimate (TRACE) Guidelines.
AD-A035 327
Implementation of Risk Assessment in the Total Risk Assessing Cost Estimate (Trace).
AD-A041 467

*ROCKET ENGINE CASES
MANUFACTURING
Press Brake-Roll and Weld Fabrication of Prototype Large-Diameter Missile Motor Cases: production Cost Estimates.
AD- 766 342

*ROTOR BLADES
Flight Test of a Composite Multi-Tubular Spar Main Rotor Blade on the AH-1G Helicopter. Volume II. Cost Estimates and Process Specifications.
AD-A046 279

*ROUTING
A Round-Trip Location Problem on a Tree Graph.
AD-A028 666
The Feasibility of a Fare Bus System for Work-Commuting at Wright-Patterson AFB, Ohio.
AD-A030 296

*RUNWAYS
Estimation of UG3RD Capacity Impacts.
AD-A037 079
Nondestructive Evaluation of Airport Pavements. Volume II. Operation Manual for PAVBEN Program at TCC.
AD-A079 495

*SALARIES
The Feasibility of a Geographic Pay Supplement for CONUS Military Personnel.
AD-A032 797

*SANDWICH PANELS
UNDERGROUND STRUCTURES
Cost Performance Analysis of Portland Cement Concrete-Fibrous Polyester Concrete Material System (Sandwich Panels).
AD- 765 473

*SANITARY ENGINEERING
Wastewater Engineering and Management Plan for Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA Study. Technical Data Volume 15. Recommended Plan and Implementation Program.
AD-A036 814

*SATELLITE COMMUNICATIONS
Development of Cost Estimating Relationships for FLEETSATCOM. Volume I.
AD- 775 628

*SATELLITE TRACKING SYSTEMS
Synchronous Satellite Tracker Investigation.
AD- 773 848

*SAVINGS
Maintainability Demonstration Cost Savings Analysis.
AD- 773 907
Some Results on An 'Income Fluctuation Problem'.
AD-A020 289
Engine Systems Ownership Cost Reduction - Aircraft Propulsion Subsystems Integration (APSI).
AD-A030 788

*SCHEDULING
The Development and Evaluation of a Cost-Based Composite Scheduling Rule.
AD- 777 354
A Computer Program for Tracking Cost/Schedule Control Systems Criteria.
AD-A042 314
An Analysis of Major Training Area Operations in V Corps, US Army Europe.
AD-A047 126
Minimizing a Project Cost with Bounds on the Expectation and Variance of the Delay Time.
AD-A058 137

JOB
Minimizing the Cost of Projects in Naval Shipyards.

AD- 769 801

*SCRUBBERS
Operating Cost Evaluation of Sulfur Dioxide Removal Systems for Boiler Applications.
AD-A054 767

*SEA TRAFFIC
A Comparative Analysis of the Relationships of Total Distribution Costs between Airlift and Sealift.
AD-A030 763

*SEARCH RADAR
Airport Surface Traffic Control Tags Planning Alternatives and Cost/Benefit Analysis.
AD-A037 790
Preliminary Limited Surveillance Radar (LSR) Cost/Benefit Analysis.
AD-A046 829
SEEK IGLOO Life Cycle Cost Model. Volume I. Cost Element Equations.
AD-A057 444
Unattended Radar Station Design for Dewline Application. Volume II.
AD-A059 510

*SELF PROPELLED GUNS
Cost/Schedule Uncertainty Analysis for VADS Short-Range (RAM) Product Improvement Program.
AD-A039 813

*SEQUENCES
Permutation Type Schedules on a Single Machine under Cost Criteria.
AD-A032 071

*SERVOMECHANISMS
Investigation of a Low-Cost Servoactuator for HYSAS.
AD-A059 188

*SET THEORY
Isoquants of Continuous Production Correspondences.
AD-A014 387

*SEWAGE TREATMENT
Wastewater Engineering and Management Plan for Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA Study. Technical Data Volume 15. Recommended Plan and Implementation Program.
AD-A036 814

*SHIELDING
A Design-Aid and Cost Estimate Model for Suppressive Shielding Structures.
AD-A020 568

*SHIP AUXILIARY EQUIPMENT
The Cost-Effectiveness of Standardization for Hull, Mechanical, and Electrical Equipment.
AD-A054 503

*SHIP HULLS
Concept Design and Cost Analysis of Restricted Draft Dry Bulk Carriers.
AD- 777 884
The Cost-Effectiveness of Standardization for Hull, Mechanical, and Electrical Equipment.
AD-A054 503

*SHIP STRUCTURAL COMPONENTS
The Impact of Ship Design Margins.
AD-A015 638

*SHIPBUILDING
The Organizational Impact of C/SCSC Upon the Supervisor of Shipbuilding.
AD-A009 907
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Executive Summary.
AD-A046 976
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command.
AD-A046 977
A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Appendices.
AD-A046 978
The Labor Market of the United States Shipbuilding Industry. 1960-1970.
AD-A059 224
Forms of Ownership and a Cost-Effective Shipbuilding Industry.
AD-A069 120
Analysis of the Cost of Variable Workloads on Shipbuilding.
AD-A077 331

*SHIPS
Trade-Off Study for Materials and Fabrication Processes for Advanced High Performance Ship Applications. Volume II. Appendices.
AD- 775 329

*SHIPYARDS
Forms of Ownership and a Cost-Effective Shipbuilding Industry.
AD-A069 120

COST EFFECTIVENESS
Minimizing the Cost of Projects in Naval Shipyards.
AD- 769 801

*SHORES
Cost Sharing for Shoreline Protection.
AD- 787 327

*SHORT TAKEOFF AIRCRAFT
COMPOSITE MATERIALS
Conceptual Design Studies of Composite AMST.
AD-B002 859

COST ANALYSIS
Conceptual Design Studies of Composite AMST.
AD-B002 859

COSTS
Minimum Life Cycle Costing for a

V/STOL Transport,
AD- 768 133

*SIGNAL PROCESSING
Low Cost, Low Power Dissipation Micro-Signal Processor for Acoustic Signal Processing.
AD-A080 808
Low Cost Anti-Jam Digital Data-Links Techniques Investigations. Volume III.
AD-A082 328

*SIMPLEX METHOD
The Non Candidate Constraint Method for Reducing the Size of a Linear Program.
AD-A082 423

*SMOKE SCREENS
Cost Effectiveness of Smoke Screens Employed by Indirect Fire Means.
AD-A044 529

*SOILS
GEOLOGICAL SURVEY
The Cost-Effectiveness of Terrain Evaluation. Volume 1. Outline of Project: Field Work in 1971.
AD- 768 983

*SOLAR CELLS
Computer Program for Design and Performance Analysis of Navigation-Aid Power Systems Program Documentation. Volume II - User's Manual.
AD-A047 356

*SOLAR ENERGY
Design of Solar Heating and Cooling Systems.
AD-A062 719

*SOLAR HEATING
An Attitudinal Study of the Home Market for Solar Devices.
AD-A045 082
Design of Solar Heating and Cooling Systems.
AD-A062 719

*SOLID PROPELLANT ROCKET ENGINES
ROCKET ENGINE CASES
Press Brake-Roll and Weld Fabrication of Prototype Large-Diameter Missile Motor Cases: production Cost Estimates.
AD- 766 342

*SOLID WASTES
Cost of Recycling Waste Material from Family Housing.
AD-A045 421

*SONAR EQUIPMENT
Parametric Cost Estimating with Applications to Sonar Technology.
AD- 787 425

*SONAR SOUND ANALYZERS
Low Cost, Low Power Dissipation Micro-Signal Processor for Acoustic Signal Processing.
AD-A080 808

*SPARE PARTS
A Cost-Benefit Analysis of Competitive Versus Sole Source Procurement of Aircraft Replenishment Spare Parts.
AD- 777 247
Redundant Spares Allocation to Reduce Reliability Costs-II.
AD- 780 908
Investigation of the Cost/Effectiveness of Numerical Control Manufacture of Quick Reaction Spare Parts.
AD-A024 749
R. Q. Inventory Problem with unknown Mean Demand and Learning (A Sequel).
AD-A045 210

*SPECIFICATIONS
Study of Commercial Specifications for U. S. Navy Ships.
AD- 777 130
Computer-Based Specifications: Cost Analysis Study.
AD- 786 551

*SPEECH COMPRESSION
Applications of Analog Sampled Data Signal Processing to Low-Cost Speech Bandwidth Compression.
AD-A058 225

*SQUAD LEVEL ORGANIZATIONS
Life Cycle Time and Cost Estimates for Squad Automatic Weapon System Candidates.
AD-A013 514

*STANDARDIZATION
Avionics Standardization Potential Analysis.
AD-A066 138

*STANDARDS
Procurement Contracting Officer's Guide to Cost Accounting Standards.
AD-A047 167
Administration of Cost Accounting Standards.
AD-A065 546

*STATISTICAL ANALYSIS
Optimum Adjustment Policy for a Product with Two Quality Characteristics.
AD- 777 623
Dependent (Conditional) Probability Aspects of Cost Estimating.
AD-A029 318
The Use of Statistical Sampling in Contract Pricing.
AD-A030 716
Predictive Operations and Maintenance Cost Model. Volume I.
AD-A078 052

*STATISTICAL SAMPLES
The Use of Statistical Sampling in Contract Pricing.
AD-A030 716

*STEEL
Lower Cost by Substituting Steel for Titanium.
AD-A067 997
Comparative In-Place Costs of Wood and Steel Framing.
AD-A071 428

*STOCHASTIC PROCESSES
Denumerable State Markov De ision Processes with Unbounded Costs.
AD- 771 432
Optimal Consumption with a Stochastic Income Stream.
AD-A004 568
A Mean Cost Approximation for Transportation Problems with Stochastic Demand.
AD-A013 711
Some Results on An 'Income Fluctuation Problem'.
AD-A020 289
Incorporating Project Cost Considerations into Stochastic PERT (Project Evaluation and Review Technique).
AD-A025 021

*STOCKPILES
On the Benefit-to-Cost Ratio of Base-Level Stocking Decisions for Low Demand Items.
AD-A053 953

*STORAGE
Commercial Molding Cost Differential between Dry Storage and Controlled Cold Storage for Meal, Combat, Individual (MCI).
AD-A034 192
Production Lot Sizing with Material Handling Cost Considerations.
AD-A051 492

*STRATEGIC WEAPONS
LCC/DTC Tasks Conducted for MX weapon System Program.
AD-A050 588

*STRENGTH(MECHANICS)
A Comparison of Fillet Weld Strength and U.S. Navy Design Specifications for Non-Combatant Ships and the Economic Implications.
AD-A075 249

*STRUCTURAL ENGINEERING
A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary.
AD-A031 843
Design Assessment of Advanced Technology Lightweight, Low-Cost Mission-Configured Gondola Modules.
AD-A073 554

*STRUCTURAL MEMBERS
Comparative In-Place Costs of Wood and Steel Framing.
AD-A071 428

*SUBMARINES
Conventional AS Load List Study.
AD-A045 461

*SUBSONIC CHARACTERISTICS
Alternate Subsonic Low-Cost Engine.
AD-A067 277

*SUPPLY DEPOTS
Inventory Costs at US Army Materiel Command Depots.
AD-A021 717

*SURFACE EFFECT SHIPS
Marginal Cost Factors for High Performance Ships and their Impact on Subsystem Design.
AD-A075 530

*SURFACE SHIPS
Marginal Cost Factors for Surface Combatant Ships.
AD-A022 311

*SURFACE TO SURFACE MISSILES
LCC/DTC Tasks Conducted for MX weapon System Program.
AD-A050 588

*SURVEYS
An Attitudinal Study of the Home Market for Solar Devices.
AD-A045 082

*SYMPOSIA
Proceedings of the Annual Department of Defense Cost Research Symposium (8th) Held at Airlie, Va., 6-8 Nov 73.
AD- 774 653

*SYNTHESIS(CHEMISTRY)
Low-Cost Solvents for the Preparation of Polyphenylquinoxalines.
AD-A065 562

*SYSTEMS ANALYSIS
Cost, Benefit, and Risk -- Keys to Evaluation of Policy Alternatives.
AD- 783 325
Systems Analysis Directorate, Activities Summary, May 1977.
AD-A057 810
Army Club Management Study 1977. Volume II. Appendices.
AD-A059 767

*SYSTEMS APPROACH
Optimal Selling When the Price Distribution is Unknown.
AD-A044 897
Systems Approach to Life-Cycle Design of Pavements. Volume III. LIFE2 Program Listing.
AD-A064 698
Systems Approach to Life-Cycle Design of Pavements. Volume II. LIFE2 System Documentation.
AD-A067 691

*SYSTEMS ENGINEERING
Criteria for Evaluating Weapon System Reliability, Availability and Costs.
AD- 777 456

AGARD Highlights, March 1974.
AD- 778 597
Reduction of the Cost of Feedback in Systems with Large Parameter Uncertainties.
AD-A046 012

*SYSTEMS MANAGEMENT
Management of Special Tooling and Special Test Equipment Acquired on Major Weapon System Acquisition Programs.
AD-A028 408
Cost Effective ILS. A Case Study and Evaluation.
AD-A029 402
Implementation of Risk Assessment in the Total Risk Assessing Cost Estimate (Trace).
AD-A041 467
Acquiring Affordable Weapons Systems.
AD-A042 777
Bare Bones: A Method for Estimating Provisioning Budget Requirements in the Outyears.
AD-A044 508

*TACAN
A Comparison Between the AN/APN-84 (V) and the AN/ARN-118 (V) TACANS, Based on the Life Cycle Cost.
AD-A035 066
A Study of Two Avionics Life Cycle Cost Models and Their Applicability in the Communications-Electronics-Meteorological Environment.
AD-A076 981

*TACTICAL AIR COMMAND
Scheduled Maintenance Policies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program.
AD-A030 146

*TACTICAL AIRCRAFT
Avionics Data for Cost Estimating.
AD-A043 265

*TACTICAL ANALYSES
Preliminary Criteria for Optimizing the Cost Effectiveness of System Improvements to Enhance Survivability.
AD-A064 115

*TACTICAL COMMUNICATIONS
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing.
AD- 787 533
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume II. System Effectiveness.
AD-A003 279
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume IA. Management Overview.
AD-A021 740
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix E. Transportation Cost of Spares and Repair Parts.
AD-A023 223
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix G. Cost Uncertainty Analysis Model.
AD-A027 666
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing.
AD-A055 147
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume V. TRI-TAC Stylized Nodal Descriptions.
AD-A056 907
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix F. Computer Models for LCC.
AD-A056 981
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix D. Military Personnel and Training Costs.
AD-A067 194

INTEGRATED SYSTEMS
Integrated Tactical Communications System (INTACS). Task III. Communications System Effectiveness and Cost Methodology Development.
AD-B002 031

*TACTICAL DATA SYSTEMS
A Preliminary Cost Analysis of the Communications Processor for the F-15 Joint Tactical Information Distribution System.
AD-A027 365
Life Cycle Management of Army Tactical Management Information Systems (TACMIS).
AD-A002 499

*TANKS(COMBAT VEHICLES)
Cost/Schedule Uncertainty Analysis of the XM1/Alternative Armament Programs.
AD-A027 402

*TARGET DRONES
Target Missile Airframe Costs.
AD-A073 314

*TAXES
Financing the Airport and Airway System: Cost Allocation and Recovery.
AD-A064 454

*TEACHING METHODS
A Survey of Methods of Teaching Mathematics.
AD- 775 281
Training Developments: A Means to Reduce Life Cycle Costs.
AD-A045 447

*TECHNICIANS
The Development of a Methodology for Estimating the Cost of Air

Force On-the-Job Training.
AD- 785 141

•TECHNOLOGY
The Opportunity Cost of the Nonmonetary Advantages of the Soviet Military R and D Effort.
AD-A028 088

•TELECOMMUNICATION CIRCUITS
Criteria for Evaluating the Cost Effectiveness of Optical Character Recognition Equipment in Base Telecommunications Centers.
AD- 787 197

•TENDERS(VESSELS)
Cost Considerations for Handling Data Buoys at Sea.
AD- 774 744
Conventional AS Load List Study.
AD-A045 461

•TERMINAL FLIGHT FACILITIES
Report on Airport Capacity: Large Hub Airports in the United States.
AD-A041 435
Remoteness-Compensation Methodology for Benefit/Cost Establishment and Discontinuance Criteria.
AD-A043 836

•TERMINALS
Low-Cost Terminal Alternative for Learning Center Managers.
AD-A082 343

•TEST EQUIPMENT
Automatic Testing, A Tool for Improving Fleet Readiness.
AD-A022 307
Automatic Test Equipment Software Life Cycle Cost Simulation Model Validation.
AD-A059 182
Test Program Set Cost Algorithm.
AD-A070 629

•TEST FACILITIES
The Impact of Direct Cost Funding on Test Center Management.
AD- 787 216
T and E Uniform Funding Policy. An Appraisal of the Fiscal Year 1975 Experience.
AD-A033 291

•TIRES
Maintenance Expenditure Limits (MEL) Tires.
AD-A046 621

•TITANIUM ALLOYS
Ti/Al Design/Cost Trade-Off Analysis.
AD-A064 693
Lower Cost by Substituting Steel for Titanium.
AD-A067 997

•TOPOLOGY
Isoquants of Continuous Production Correspondences.
AD-A014 787

•TORPEDOES
Design to Cost of Advanced Lightweight Torpedo.
AD-A028 407

•TRACER AMMUNITION
Applications of Manufacturing Cost Analysis and Prediction System to the Production of the M13 Tracer.
AD-A025 019

•TRACKED VEHICLES
Army Life Cycle Cost Model for Tracked Vehicle Systems.
AD-A044 157

•TRADE OFF ANALYSES
The Mission Trade-Off Methodology (MTOM) Model: User's Manual.
AD-A062 947
Reliability Trade-Offs for Unit Production Cost.
AD-A065 643

•TRAINING
Training Resource Classifications: Direct-Indirect and Fixed-Variable Cost Categories.
AD-A029 179
Incremental Costing Model for Use with the CNET Per Capita Course Costing Data Base: System I.
AD-A081 759

•TRAINING DEVICES
Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator.
AD-A036 159
A Consideration of Army Training Device Proficiency Assessment Capabilities.
AD-A056 191
A Methodology and Analysis for Cost-Effective Training in the AN/TSQ-73 Missile Minder.
AD-A077 943

•TRANSFER
Review of Permanent Change of Station Travel Entitlements.
AD-A030 348

•TRANSFER OF TRAINING
Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator.
AD-A036 159

•TRANSMISSIONS(MECHANICAL)
Cost Analysis of a Helicopter Transmission and Drive Train.
AD-A030 518

•TRANSONIC WIND TUNNELS
A Generalized Analysis of the Performance of a Variety of Drive Systems for High Reynolds Number, Transonic, Wind Tunnels.
AD- 784 883

•TRANSPARENT PANELS
Aircraft Transparency Failure and Logistical Cost Analysis. Volume I. Program Summary.

AD-A063 719
Aircraft Transparency Failure and Logistical Cost Analysis. Volume II. Design Data and Maintenance Procedures.
AD-A068 720
Aircraft Transparency Failure and Logistical Cost Analysis. Volume III. Transparency Analysis.
AD-A068 721
Aircraft Transparency Failure and Logistical Cost Analysis - Supplemental Study.
AD-A075 500

•TRANSPONDERS
A Summary of the DABS (Discrete Address Beacon System) Transponder Design/Cost Studies.
AD- 776 140

•TRANSPORT AIRCRAFT
Life Cycle Cost of C-130E Weapon System.
AD-A044 046

•TRANSPORTATION
A General Treatment of Upper Unbounded and Bounded Hitchcock Problems.
AD-A002 678
First Destination Transportation Cost for Ammunition.
AD-A017 563
Transportation Costs as a Consideration in Air Force Contracts.
AD-A067 949

•TRAVEL TIME
A Method for Least-Cost Scheduling of Personnel through Training Course Sequences.
AD- 783 629

•TREATMENT
Economic Comparison of Wood-Preservative Treated and Untreated 105mm Ammunition Boxes.
AD-A001 532

•TRUCKS
A Comparison of Maintenance Costs and RAM Characteristics of New and Overhauled M35A2 2-1/2 Ton Trucks.
AD-A071 069

MAINTENANCE
An Analysis of Cost Implications of Accomplishing Direct Support Maintenance Tasks for the Truck, 1/4-Ton, M151 Series at the Organizational Maintenance Level.
AD-B006 685

•TURBOFAN ENGINES
Engine Systems Ownership Cost Reduction - Aircraft Propulsion Subsystems Integration (APSII).
AD-A030 788
Life Cycle Analysis of Aircraft Turbine Engines: Executive Summary.
AD-A039 062
An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines.
AD-A044 082
A Study of Opportunistic Replacement Tactics for Modular Jet Engine Management.
AD-A044 184

•TURBOJET ENGINES
Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model.
AD-A021 083
Life Cycle Analysis of Aircraft Turbine Engines: Executive Summary.
AD-A039 062
An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines.
AD-A044 082
Low Cost Expendable Engine.
AD-A062 864
Ti/Al Design/Cost Trade-Off Analysis.
AD-A064 [illegible]
Alternate Subsonic Low-Cost Engines.
AD-A067 277
The Use of the Rayner Factor for Estimating the Cost of a Turbine Engine in the Early Stages of Development.
AD-A073 [illegible]
An Extension of Engine Weight Estimation Techniques to Compute Engine Production Cost.
AD-A074 45[illegible]

•TYPHOONS
Cost Effectiveness of Typhoon Forecast Improvements.
AD- 781 324

•UNDERGROUND ANTENNAS
ELF Communications SEAFARER Program. Site Survey, Michigan Region. Antenna Construction Cost Factors and Installation Plan.
AD-A036 405

•UNDERGROUND STRUCTURES
SANDWICH PANELS
Cost Performance Analysis of Portland Cement Concrete-Fibrous Polyester Concrete Material System (Sandwich Panels).
AD- 7[illegible] 4[illegible]3

•UNDERWATER COMMUNICATIONS
ELF Communications SEAFARER Program. Site Survey, Michigan Region. Antenna Construction Cost Factors and Installation Plan.
AD-A036 405

•UNEMPLOYMENT
An Economic Analysis of Lay-Offs.
AD-A026 386

•URBAN AREAS
Water and Related Land Resources, Management Study. Volume V. Supporting Technical Reports

Appendix. Annex F. Missouri Riverfront Corridor Land Use Plan and Program.
AD-A041 933
Water and R ated Land Resources Management S y. Volume V. Supporting Technical Reports Appendix. Annex H. Regional Wastewater Management.
AD-A041 935
Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex K. Regional Water Supply. Appe dix.
AD-A041 937

*URBAN PLANNING
Water and Related Land Resources. Management Study. Volume V. Supporting Technical Reports Appendix. Annex F. Missouri Riverfront Corridor Land Use Plan and Program.
AD-A041 933
Environmental Planning for the Metropolitan Area Ceda -Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 1. Cedar River Basin.
AD-A042 166
Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 2. Green River Basin.
AD-A042 167

*USER NEEDS
SEEK IGLOO Life Cycle Cost Model. Volume II. User's Manual.
AD-A059 222

*USSR
Deflation of the 18 Sector Soviet Input-Output Tables.
AD-A059 283

*VALUE ENGINEERING
The Impact of Required Contractual Clauses on System Acquisition Policies: The Case of Value Engineering.
AD-A018 526

*VEHICLES
Suggested Methods for Implementation of Life Cycle Costing Techniques in the Procurement of Air Force General Purpose Commercial Vehicles.
AD- 777 249

*VERTIGO
PILOTS
Orientation-Error Accidents in Regular Army Aircraft During Fiscal Year 1970: Relative Incidence and Cost.
AD- 767 028

*VOCODERS
Applications of Analog Sampled Data Signal Processing to Low-Cost Speech Bandwidth Compression.
AD-A058 225

*WAR GAMES
DECISION THEORY
Development of a Dynamic Simulation Filter.
AD-B001 641

*WAREHOUSES
A Methodology for Determining Investment Costs for Automated Storage Facilities.
AD- 777 864
A General Warehouse Module Conceptual Design and Cost Analysis. Volume II. Main Text and Appendices.
AD-A031 384
A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary.
AD-A031 843

*WASTE MANAGEMENT
Wastewater Engineering and Management Plan for Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA Study. Technical Data Volume 15. Recommended Plan and Implementation Program.
AD-A036 814
Binghamton Wastewater Management Study. Design and Cost Appendix.
AD-A036 830
Southeastern Michigan Wastewater Management Survey Scope Study. Design and Cost Appendix.
AD-A041 115
Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex H. Regional Wastewater Management.
AD-A041 935

*WASTE RECYCLING
Cost of Recycling Waste Material from Family Housing.
AD-A045 421

*WASTE WATER
Wastewater Engineering and Management Plan for Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA Study. Technical Data Volume 15. Recommended Plan and Implementation Program.
AD-A036 814
Binghamton Wastewater Management Study. Design and Cost Appendix.
AD-A036 830
Southeastern Michigan Wastewater Management Survey Scope Study. Design and Cost Appendix.
AD-A041 115
Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex H. Regional Wastewater Management.
AD-A041 935

*WATER RESOURCES
Water and Related Land Resources. Management Study. Volume

V. Supporting Technical Reports Appendix. Annex F. Missouri River Development Corridor Land Use Plan and Program.
AD-A041 933

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex H. Regional Wastewater Management.
AD-A041 935

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex K. Regional Water Supply. Appendix.
AD-A041 937

*WATER SUPPLIES

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex K. Regional Water Supply. Appendix.
AD-A041 937

*WEAPON SYSTEMS

Proceedings of the Annual Department of Defense Cost Research Symposium (8th) Held at Airlie, Va., 6-8 Nov 75.
AD- 774 653

Criteria for Evaluating Weapon System Reliability, Availability and Costs.
AD- 777 456

The Applicability of 'Should Cost' to the Procurement Process.
AD- 777 867

Cost Estimating Relationships (CER) Compendium, Army Weapon and Equipment Systems.
AD- 784 124

A Cost Growth Model for Weapon System Development Programs.
AD- 785 438

A Summary and Analysis of Selected Life Cycle Costing Techniques and Models.
AD- 787 183

Bias in Initial Cost Estimates: How Low Estimates Can Increase the Cost of Acquiring Weapon Systems.
AD- 787 395

Operating and Support Cost Development Guide for Aircraft Systems.
AD-A001 747

Operating and Support Costing Guide: Army Weapon Systems.
AD-A003 436

Navy Weapon System Life-Cycle Cost Model.
AD-A003 905

An Appraisal of Logistics Support Costs Used in the Air Force IPOS Program.
AD-A009 844

The Requirements Determination Process for Naval Weapon Systems: An Organizational Analysis.
AD-A009 971

Getting 'Real' Data for Life-Cycle Costing.
AD-A010 960

Executive Summary of the Navy Weapon System Life-Cycle Cost Model (WSCOM).
AD-A014 319

Analysis of Available Life Cycle Cost Models and Actions Required to Increase Future Model Applications.
AD-A014 772

A Model to Predict Final Cost Growth in a Weapon System Development Program.
AD-A016 040

Cost/Schedule Control System Criteria: An Analysis of Managerial Utility.
AD-A016 270

Army Life Cycle Cost Model: User's Guide. Volume I.
AD-A021 900

Cost/Schedule Uncertainty Analysis of the XM1/Alternative Armament Programs.
AD-A027 402

An Exploratory Study of Software Cost Estimating at the Electronic Systems Division.
AD-A030 162

The Effects of Developmental Software on the Acquisition Management of Aeronautical Computer systems.
AD-A030 217

Life-Cycle Costing. A Selected Bibliography.
AD-A030 554

Visibility and Management of Support Costs - Ships (VAMOSC II).
AD-A030 782

Acquiring Affordable Weapons Systems.
AD-A042 777

Initial Operational Support: An Alternate Approach.
AD-A042 933

The Air Force Cost Estimating Process: The Agencies Involved and Estimating Techniques Used.
AD-AC44 101

Army Life Cycle Cost Model for Tracked Vehicle Systems.
AD-A044 *57

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume I. Study Synopsis.
AD-A045 162

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume II. A Candidate Electronics Manufacturing Technology Plan.
AD-AC45 163

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume III. Appendices.
AD-A045 164

A Conceptual Model of the Department of Defense Major System Acquisition Process.
AD-A059 183

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model Volume III.
AD-A059 354

A Cost Analysis on Procuring Improved Technical Order Data for the F-15 Weapon System.
AD-A059 571
The Effect of Price Competition on Weapon System Acquisition costs.
AD-A078 232
Manpower/Hardware Life Cycle Cost Analysis Study.
AD-A081 513

*WEATHER COMMUNICATIONS
Some Results from Applying a Cost-Effectiveness Model for Evaluating Aviation Weather Dissemination Techniques.
AD- 777 441

*WEATHER FORECASTING
Cost Effectiveness of Typhoon Forecast Improvements,
AD- 781 324
On Determining Cost Effectiveness of an Army Automatic Meteorological System.
AD-A002 013

*WEATHERING
Environmental Effects on Maintenance Costs for Aircraft Equipment.
AD-A025 801

*WEED CONTROL
Costs and Benefits of Aquatic Weed Control,
AD-A067 424

*WELDS
A Comparison of Fillet Weld Strength and U.S. Navy Design Specifications for Non-Combatant Ships and the Economic Implications.
AD-A035 249

*WINDOWS
Aircraft Transparency Failure and Logistical Cost Analysis. Volume I. Program Summary.
AD-A068 719
Aircraft Transparency Failure and Logistical Cost Analysis. Volume II. Design Data and Maintenance Procedures.
AD-A068 720
Aircraft Transparency Failure and Logistical Cost Analysis. Volume III. Transparency Analysis.
AD-A068 721

*WINDSHIELDS
Aircraft Transparency Failure and Logistical Cost Analysis. Volume I. Program Summary.
AD-A068 719
Aircraft Transparency Failure and Logistical Cost Analysis. Volume II. Design Data and Maintenance Procedures.
AD-A068 720
Aircraft Transparency Failure and Logistical Cost Analysis. Volume III. Transparency Analysis.
AD-A068 721

*WOOD
Economic Comparison of Wood-Preservative Treated and Untreated 105mm Ammunition Boxes.
AD-A001 532

TITLE INDEX

105MM Howitzer Production Trade-Off Analysis.
AD-A045 753

The A-7 ALOFT Cost Model: A Study of High Technology Cost Estimating.
AD-A021 913

A-7 ALOFT Economic Analysis Development Concept.
AD-A013 221

A-7 ALOFT Life-Cycle Cost and Measures of Effectiveness Models.
AD-A026 206

The A-10 and Design-to-Cost: How Well Did It Work.
AD-A075 437

Academic Attrition from Navy Technical Training Class 'A' School Courses.
AD-A044 029

The Accuracy of Air Force Weapon System Cost Estimates as a Function of Time.
AD-A030 240

Acquiring Affordable Weapons Systems.
AD-A042 777

Acquisition Cost Estimating Using Simulation.
AD-A015 624

Acquisition Costing in the Federal Government.
AD-A060 346

Administration of Cost Accounting Standards.
AD-A065 548

An Advanced Air Traffic Management Concept Based on Extensions of the Upgraded Third Generation ATC system. System B: System Cost Analysis.
AD- 785 3:3

Advanced Composite Cost Estimating Manual. Volume I.
AD-A041 495

Advanced Composite Cost Estimating Manual. Volume II.
AD-A041 497

Advanced Composite Cost Estimating Manual. Volume II. Appendix.
AD-A041 496

Advanced Structures Concepts R and M/Cost Assessments.
AD-A077 373

The Affect of Wipics on the F4-B to N Conversion Program.
AD- 777 256

AFSATCOM Life Cycle Cost Model.
AD-A056 102

AGARD Highlights. March 1974.
AD- 778 597

AGMC LCC Model for Inertial Navigation Systems.
AD-A016 626

AGMC Life Cycle Cost Model, an Accounting Model for Inertial Navigation Systems.
AD-A030 069

The AGOR-21 Class Oceanographic Research Ships: An Acquisition Analysis.
AD-A053 872

Air Force Acquisition Logistics Division, its Creation and Role.
AD-A061 357

Air Force Central Supply and Maintenance Cost Data Base FYs 1965-1974.
AD-A024 251

The Air Force Cost Estimating Process: The Agencies Involved and Estimating Techniques Used.
AD-A044 101

Air Force Human Resources Laboratory Military Personnel Costing Conference.
AD-A013 171

The Air Force Should Recover Excess Costs of Prior F-15 Contracts and Take Action to Save Costs on Future F-15 Contracts.
AD-A079 804

Air Mobility Fuel Cell Study.
AD- 766 757

Aircraft Airframe Cost Estimation by the Application of Joint Generalized Least Squares.
AD-A020 228

Aircraft Airframe Cost Estimation Using a Random Coefficients Model.
AD-A078 298

Aircraft Airframe Cost Estimation Utilizing a Components of Variance Model.
AD-A032 627

Aircraft Maintenance Cost Elements.
AD-A047 640

Aircraft System Operating and Support Costs: Guidelines for Analysis.
AD-A039 369

Aircraft Transparency Failure and Logistical Cost Analysis - Supplemental Study.
AD-A075 500

Aircraft Transparency Failure and Logistical Cost Analysis. Volume I. Program Summary.
AD-A068 719

Aircraft Transparency Failure and Logistical Cost Analysis. Volume II. Design Data and Maintenance Procedures.
AD-A068 720

Aircraft Transparency Failure and Logistical Cost Analysis. Volume III. Transparency Analysis.
AD-A068 721

Airport Surface Traffic Control Systems Development Analysis - Expanded.
AD-A013 579

Airport Surface Traffic Control Tags Planning Alternatives and Cost/Benefit Analysis.
AD-A037 790

Alcoholism in the Navy: A Cost Study.
AD-A009 910

Alternate Subsonic Low-Cost Engine.
AD-A067 277

Alternative Strategies for Optimizing Energy Supply, Distribution, and Consumption Systems on Naval Bases. Volume I: Near-Term Strategies.
AD- 777 471

Alternative Strategies for Optimizing Energy Supply, Distribution, and Consumption Systems on Naval Bases. Volume II. Advanced Energy Conservation Strategies.
AD- 786 757

AMC Guide for Design to Unit Production Cost (DTUPC).
AD-A006 214

Ammunition Cost Research: Medium-Bore Automatic Cannon Ammunition.
AD-A016 104

Ammunition Cost Research Study.
AD-A029 330

AMOSIST Program Field Evaluation Physician Savings and Cost Effectiveness.
AD-A061 146

Analysis and Computation of a Base Labor Rate for Cost Models of Major Weapon System Acquisition.
AD-A059 184

Analysis of Available Life Cycle Cost Models and Actions Required to Increase Future Model Applications.
AD-A014 772

An Analysis of Cost Implications of Accomplishing Direct Support Maintenance Tasks for the Truck, 1/4-Ton, M151 Series at the Organizational Maintenance Level.
AD-B006 695

Analysis of Criteria for Changing Standard Prices.
AD- 767 090

An Analysis of Forward Pricing Rates and Their Effectiveness in Indirect Cost Management.
AD-A059 307

An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines.
AD-A044 082

An Analysis of Major Training Area Operations in V Corps, US Army Europe.
AD-A047 126

Analysis of Overhead Cost for a Defined Cost Center in the Lake City Army Ammunition Plant Using Regression Analysis.
AD- 786 502

Analysis of Proposed Stock Range Rules.
AD-A009 120

An Analysis of Storage, Retrieval, and Update Costs for Data Bases which are Tables of Entries.
AD-A069 763

Analysis of the Cost Center Performance Measurement System.
AD-A044 099

An Analysis of the Cost Effectiveness of a Specialized Mission Helicopter in the U.S. Coast Guard.
AD-A075 444

An Analysis of the Cost Implications of Employing Success Predictive Criteria in the Process of Selecting Navy Recruiters.
AD-A074 189

Analysis of the Cost of Variable Workloads on Shipbuilding.
AD-A077 331

Analysis of the Effectiveness of the Preproduction Evaluation Contract in Preventing Cost Overruns.
AD-A024 818

An Analysis of the Inflationary Effects on Inventory Systems.
AD-A028 208

An Analysis of the Need for Industrial Engineering Capability in Production at Electronic Systems Division.
AD-A032 061

Analysts' Manual for the Multiple-Bid Evaluation Model for Procurement Planning and Placement.
AD-A046 586

An Analytical Approach to

Optimizing Airframe Production Costs as a Function of Production Rate.
AD- 775 698

An Analytical Evaluation of Procedures for Closing Cost-Type Contracts.
AD-A072 697

An Analytical View of Advance Incentivized Overhead Agreements in the Defense Industry.
AD-A047 634

The Applicability of 'Should Cost' to the Procurement Process.
AD- 777 867

The Application and Utility of Independent Government Cost Estimates.
AD-A012 795

Application of a Bayesian Approach to Updating Airframe CERs.
AD-A077 064

Application of Life Cycle Costing Principles to Less than Major Programs.
AD-A060 772

An Application of Multi-Attribute Utility Theory: Design-to-Cost Evaluation of the U.S. Navy's Electronic Warfare System.
AD-A029 987

Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties.
AD-A045 889

The Application of Quantity Discounts in Army Procurements.
AD-A066 583

Application of the Penalty Cost Model to Centrally Managed Items.
AD- 768 731

Application of the RCA PRICE-S software Cost Estimation Model to Air Force Avionics Laboratory Programs. Revision.
AD-A078 793

Applications of Analog Sampled Data Signal Processing to Low-Cost Speech Bandwidth Compression.
AD-A058 225

Applications of Decision Analysis to the U. S. Army Affordability Study.
AD-A064 442

Applications of Manufacturing Cost Analysis and Prediction System to the Production of the M13 Tracer.
AD-A025 019

An Appraisal of Logistics Support Costs Used in the Air Force IRDS Program.
AD-A009 844

An Appraisal of Models Used in Life Cycle Cost Estimation for USAF Aircraft Systems.
AD-A064 333

An Appraisal of the Short-Term Cost Results of a Selected Number of Air Force Should Cost Studies.
AD-A016 262

An Approach for Measuring Benefit and Cost in Management and Information Systems.
AD-A014 209

An Approach to Point of Sale System Acquisition Cost-Benefit Analysis.
AD-A018 308

An Approach to Software Life Cycle Cost Modeling.
AD-A064 223

An Approach to the Allocation of Common Costs of Multi-Mission Systems.
AD- 766 624

An Approach to the Estimation of Life Cycle Costs of a Fiber-Optic Application in Military Aircraft.
AD-A019 379

An Approach to the Life-Cycle Analysis of Aircraft Turbine Engines.
AD-A080 930

Approximation Methods for the Minimum Average Cost Per Unit Time Problem with a Diffusion Model.
AD-A058 876

Are Dual Variables Prices. If Not, How to Make Them More So.
AD-A060 819

Army Club Management Study 1977. Volume II. Appendices.
AD-A059 767

Army Force Planning Cost Handbook.
AD-A030 099

Army Helicopter Cost Drivers.
AD-A015 517

Army Inventory Cost Parameters.
AD-A003 922

Army Life Cycle Cost Model for Tracked Vehicle Systems.
AD-A044 157

Army Life Cycle Cost Model: Programmer's Guide. Volume II.
AD-A035 168

Army Life Cycle Cost Model: User's Guide. Volume I.
AD-A021 900

The Art of Cost-Benefit Analysis.
AD-A041 526

An Attitudinal Study of the Home

Market for Solar Devices.
AD-A045 032

Auditing Cost-Effectiveness Analyses of Technological Changes.
AD- 776 539

Automatic Data Processing Costs in the Defense Department.
AD-A004 841

Automatic Test Equipment Software Life Cycle Cost Simulation Model Validation.
AD-A059 182

Automatic Testing, A Tool for Improving Fleet Readiness.
AD-A022 307

The Aviation Career Incentive Act of 1974: An Analysis of Short-Range Results in the United States Air Force, 1974-1977.
AD-A058 335

Avionics Cost Development for Civil Application of Global Positioning System.
AD-A056 936

Avionics Cost Development for Civil Application of Global Positioning System.
AD-A080 945

Avionics Cost Development For Use of Loran-C Navigation Systems By Low Performance General-Aviation Aircraft.
AD-A068 268

Avionics Cost Reduction Through Improved Tests.
AD- 787 188

Avionics Data for Cost Estimating.
AD-A043 265

Avionics Installation (AVSTALL) cost Model for User Equipment of NAVSTAR Global Positioning System.
AD-A073 681

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume 2.
AD-A059 516

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model. Volume I.
AD-A059 164

The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model Volume III.
AD-A059 354

Avionics Proliferation: A Life Cycle Cost Perspective.
AD-A016 478

Avionics Standardization Potential Analysis.
AD-A066 138

B-1 Systems Approach to Training. Volume II. Appendix A. Cost Details.
AD-B007 209

Bare Bones: A Method for Estimating Provisioning Budget Requirements in the Outyears.
AD-A044 508

Behavioral Aspects of Cost-Benefit Analysis.
AD-A075 099

Bias in Initial Cost Estimates: How Low Estimates Can Increase the Cost of Acquiring Weapon Systems.
AD- 787 395

Binghamton Wastewater Management Study. Design and Cost Appendix.
AD-A038 830

Break-Even Analysis of VADS, M163, Antenna Protection Device.
AD-A033 926

Briefing on Manufacturing Technology (MT) Cost Driver Analysis Program to Naval Air Systems Command. Department of the Navy. Washington, D.C..
AD-A080 962

Bupers MPN Expenditure Estimating.
AD-A037 391

Calculation of the Cost of Warranty Policies as a Function of Estimated Life Distributions.
AD-A001 015

Can Cost Analysis Improve Management.
AD- 779 579

Capital/Labor Substitution and Factor Price Ratios in a Military Service: A Study of Defense Resource Allocation.
AD-A019 190

Case Study: FFG-7 Class Ship.
AD-A057 291

A case Study of the Combined Arms Combat Developments Activity. Cost Consideration in Decisionmaking Regarding Combat Development Studies.
AD-A029 670

A Case Study of the Usefulness of the Cost/Schedule Control System Criteria (C/SCSC).
AD- 923 129

Central Flow Control Automation Program Cost-Benefit Analysis.
AD-A040 060

The Change Process in Weapons System Acquisition.
AD- 768 826

Coal Gasification Study.

AD-A041 860

Coal Gasification Study Handbook.
AD-A042 385

COEFUV: A Computer Implementation of a Generalized Unmanned Vehicle Cost Model.
AD-A079 038

Combat Vehicle System Operating and Support Costs: Guidelines for Analysis.
AD-A041 508

Comments on LMFBR Cost-Benefit Analysis.
AD-A022 296

Commercial Holding Cost Differential between Dry Storage and Controlled Cold Storage for Meal, Combat, Individual (MCI).
AD-A034 192

Commodity Type as a Factor in Contract Cost Growth.
AD-A007 287

Comparative Analysis of Capital Equipment Budgeting Systems in Health Care Institutions.
AD- 787 367

A Comparative Analysis of the Relationships of Total Distribution Costs between Airlift and Sealift.
AD-A030 763

Comparative In-Place Costs of Wood and Steel Framing.
AD-A071 428

A Comparison Between the AN/ARN-84 (V) and the AN/ARN-118 (V) TACANS, Based on the Life Cycle Cost.
AD-A035 066

A Comparison of Fillet Weld Strength and U.S. Navy Design Specifications for Non-Combatant Ships and the Economic Implications.
AD-A075 249

A Comparison of Maintenance Costs and RAM Characteristics of New and Overhauled M35A2 2-1/2 Ton Trucks.
AD-A071 068

Competitive Prices, Dynamic Programming under Uncertainty, a Nonstationary Case.
AD-A028 243

A Compilation of Methodological Problems Confronting the Air Force in the Fields of Economics and Management. Phase I.
AD-A043 360

Complexity as a Factor of Quality and Cost in Large Scale Software Development.
AD-A081 604

Computation of the Optimal Average Cost Policy for the Two Terminal Shuttle.
AD-A000 912

Computer Aided Cost Estimation for Production Engineers.
AD-A035 823

Computer-Aided Final Design Cost Estimating System Overview.
AD-A040 119

Computer-Based Specifications: Cost Analysis Study.
AD- 786 551

A Computer Centralization Cost Model for Conceptual Design.
AD- 776 028

A Computer Model for Estimating Development and Procurement Costs of Aircraft (DAPCA-III).
AD-A025 276

Computer Model for Life Cycle Costing. User's Guide.
AD-A042 405

Computer Network Usage -- Cost-Benefit Analysis.
AD-A011 375

Computer Network Usage-- Cost/Benefit Analysis - I.
AD- 771 439

Computer Network Usage-Cost-Benefit Analysis-I.
AD- 774 740

Computer Program for Design and Performance Analysis of Navigation-Aid Power Systems Program Documentation. Volume II - User's Manual.
AD-A047 356

A Computer Program for Tracking Cost/Schedule Control Systems Criteria.
AD-A042 314

Computer Program Input Instructions for Cost Performance Forecasting Model.
AD-A022 792

A Computerized Log for Systems and Cost Analysis Division Cost Estimate Control Data Center (CECDC) Validation Activity.
AD-A049 976

A Computerized Model for Estimating Software Life Cycle Costs (Model Concept). Volume 1.
AD-A053 937

Concept Design and Cost Analysis of Restricted Draft Dry Bulk Carriers.
AD- 777 884

The Concept of Life Cycle Costing Applied to the MICV Project.
AD-A009 189

A Conceptual Design for the Cost Evaluation of Alternative Educational Systems in Managing the Air Force Academy and Air Force ROTC.
AD- 770 746

Conceptual Design Studies of Composite AMST.
AD-B002 859

A Conceptual Model of the Department of Defense Major System Acquisition Process.
AD-A059 183

A Consideration of Army Training Device Proficiency Assessment Capabilities.
AD-A056 191

Considering the Cost of DOD personnel: A Look at Some Issues Requiring Further Analysis.
AD- 786 581

Consolidation of RPMA at Fayetteville, N. C. Volume I. Executive Summary for the Study of Consolidation of RPMA in the Fayetteville, N. C. Area.
AD-A033 754

Consolidation of RPMA at Fayetteville, NC. Volume II. Summary Cost Analysis for Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 518

Consolidation of RPMA at Fayetteville, NC. Volume III. Cost Analysis Support and Backup Data for the Consolidation of RPMA in the Fayetteville, NC Area.
AD-A030 519

Consolidation of RPMA at Fayetteville, NC. Volume IV. General Procedures for Conducting RPMA Consolidation Studies.
AD-A041 331

Construction Equipment Cost Guide.
AD-A016 788

Construction-Site Noise Control Cost-Benefit Estimating Procedures.
AD-A051 737

Construction-Site Noise Control Cost-Benefit Estimation Technical Background.
AD-A050 813

Contractor Initiatives for Reliability, Maintainability, and Cost Improvement.
AD-A047 378

The Contractual Implications of the Design-to-Cost Concept.
AD- 777 457

Conventional AS Load List Study.
AD-A045 461

Cooperative Logistics Supply Support Arrangement Pricing Relationships Between Programmed and Nonprogrammed Requisitions.
AD-A075 587

Corrosion Costs of Air Force and Army Facilities and Construction of a Cost Prediction Model.
AD-A042 628

A Cost Accounting Standard on Capacity Related Costs: A desirability and Feasibility Analysis.
AD-A076 503

Cost Analysis of a Helicopter Transmission and Drive Train.
AD-A080 518

Cost Analysis of Air Force On-the-Job Training: Development and Demonstration of a Methodology.
AD-A069 791

Cost Analysis of Airborne Collision Avoidance Systems (CAS) Concepts.
AD-A023 080

Cost Analysis of Avionics Equipment.
AD- 781 132

A Cost Analysis of Graduate Education in Logistics Management.
AD-A047 662

A Cost Analysis on Procuring Improved Technical Order Data for the F-15 Weapon System.
AD-A059 571

Cost and Efficiency in Military Specialty Training.
AD- 786 652

Cost and Feasibility Evaluation for the Excavation of Large Hemispherical Cavities in Rainier Mesa.
AD-A067 218

Cost and Production Functions - A Survey.
AD- 781 711

Cost and Retention Impacts of the Navy's Conus Recreation Program.
AD-A038 654

Cost and Training Effectiveness Analysis (CTEA) of the CH-47 Flight Simulator (CH47FS).
AD-A033 972

Cost Benefit Analysis and the National Aviation System - A Guide.
AD-A037 434

Cost-Benefit Analysis Applied to the Program Objectives Memorandum (POM).
AD-A063 619

A Cost-Benefit Analysis of Competitive Versus Sole Source

Procurement of Aircraft Replenishment Spare Parts.
AD- 777 247

Cost Benefit Analysis of the Department of Defense Family Housing Program.
AD-A061 421

A Cost-Benefit Analysis of the Proposed Consolidation of All Navy and Marine A6-E Fleet Replacement Training Squadrons.
AD-A064 996

Cost-Benefit Analysis of Training a Naval Reserve Seabee.
AD-A062 195

Cost, Benefit, and Risk -- Keys to Evaluation of Policy Alternatives.
AD- 783 325

A Cost/Benefit Matrix Model of Nuclear Deterrence.
AD-A007 467

Cost/Benefit Tradeoffs Available in Aircraft Noise Technology Applications in the 1980's.
AD-A082 028

Cost Benefits of Navy Recreation: Summary of a Conference Held at the Smithsonian Institution on December 1973.
AD- 784 499

Cost Benefits Study - Interim 16mm Microfilm Container and Reel Assembly.
AD- 776 962

Cost Considerations for Handling Data Buoys at Sea.
AD- 774 744

Cost Considerations in Policy Analysis.
AD-A022 191

Cost-Driven Analysis for Computerized Production Process Planning.
AD-A074 054

Cost Effective Analysis.
AD-A052 400

Cost-Effective GaAs Read IMPACT transmitters.
AD-A044 034

Cost-Effective GaAs Read IMPATT Transmitters.
AD-A056 996

Cost Effective ILS. A Case Study and Evaluation.
AD-A029 482

Cost Effective Solid State Transmitter Study.
AD-A028 965

Cost Effectiveness Analysis of Bonuses and Reenlistment Policies (CEABREP).
AD-A042 904

A Cost Effectiveness Analysis of the Naval Modular Automated Communications System (NAVMACS).
AD-A049 940

Cost-Effectiveness Comparison of the Retubed M114 and XM198 Cannon Systems.
AD-A013 521

Cost-Effectiveness Measures of Replenishment Strategies for Systems of Orbital Spacecraft.
AD-A081 859

A Cost-Effectiveness Model, Choice through Preferences.
AD-A006 205

Cost-Effectiveness Model I. Prototype Selection and Trade-Office Analyses.
AD- 781 947

Cost Effectiveness of Alternative Noise Reduction Methods for Construction of Family Housing.
AD-A028 922

Cost-Effectiveness of Computer-Based Instruction in Military Training.
AD-A073 400

Cost-Effectiveness of Potential Federal Policies Affecting Research and Development Expenditures in the Auto, Steel and Food Industries.
AD-A046 269

Cost Effectiveness of Smoke Screens Employed by Indirect Fire Means.
AD-A044 529

The Cost-Effectiveness of Standardization for Hull, Mechanical, and Electrical Equipment.
AD-A054 503

The Cost-Effectiveness of Terrain Evaluation. Volume 1. Outline of Project: Field Work in 1971.
AD- 768 983

Cost Effectiveness of Typhoon Forecast Improvements.
AD- 781 324

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume IA. Management Overview.
AD-A021 740

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume II. System Effectiveness.
AD-A003 279

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing.
AD- 787 533

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing.
AD-A055 147

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix D. Military Personnel and Training Costs.
AD-A067 194

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix E. Transportation Cost of Spares and Repair Parts.
AD-A023 223

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix F. Computer Models for LCC.
AD-A056 981

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle Costing. Appendix G. Cost Uncertainty Analysis Model.
AD-A027 666

Cost Effectiveness Program Plan for Joint Tactical Communications. Volume V. TRI-TAC Stylized Nodal Descriptions.
AD-A056 907

Cost Estimating Relationships (CER) Compendium, Army Weapon and Equipment Systems.
AD- 784 124

Cost Estimating Relationships for Naval Surface Ship Electronic Warfare Equipment.
AD-A009 576

Cost-Estimating Relationships for Predicting Life-Cycle Costs of Inertial Measurement Unit Maintenance.
AD-A006 344

Cost Estimating Relationships for Procurement Costs of Airborne Digital Computers and Inertial Measurement Units for Use in Remotely Piloted Vehicles.
AD-A003 353

Cost-Estimating Relationships Using Linear, Log-linear and Non-linear Regression.
AD-A013 928

Cost Estimating Study, an Abstract of Activities Performed in 1974.
AD-A014 349

Cost Growth: Effects of Share Ratio and Range of Incentive Effectiveness.
AD-A011 185

A Cost Growth Model for Weapon System Development Programs.
AD- 785 438

A Cost Management Control Procedure for Initial Training in Surface Ship Acquisition Programs.
AD-A070 037

A Cost Model for Air Force Institute of Technology Programs.
AD-A076 924

The Cost of Caring.
AD-A046 810

Cost of Irradiating Bacon and the Associated Energy Savings.
AD-A069 968

Cost of Living Adjustment for Military Personnel.
AD- 778 634

The Cost of Money on Assets Under Construction and Defense Contracting.
AD-A078 272

Cost of Ownership Handbook.
AD-A029 495

Cost of Recycling Waste Material from Family Housing.
AD-A045 421

Cost of Terminating Contracts Study (COTCOS-I).
AD-A037 408

Cost Optimizing System to Evaluate Reliability (COSTER).
AD-A038 761

Cost Performance Analysis of Portland Cement Concrete-Fibrous Polyester Concrete Material System (Sandwich Panels).
AD- 765 473

A Cost Performance Forecasting Concept and Model.
AD-A022 793

Cost-Performance Relationships for Use with the Uniform Chart of Accounts for Militart Medical Treatment Facilities.
AD-A068 577

Cost Prediction Models for Bringing Selected Air Force Logistics Command Facilities into Compliance with the Occupational Safety and Health Administration Standards.
AD-A016 344

Cost/Schedule Control System Criteria: An Analysis of Managerial Utility.
AD-A016 270

Cost/Schedule Uncertainty Analysis for VADS Short-Range (RAM) Product Improvement Program.
AD-A039 813

Cost/Schedule Uncertainty Analysis of the XM1/Alternative Armament Programs.
AD-A027 402

Cost Sharing for Shoreline Protection.
AD- 787 327

Cost Tradeoffs Between Local and Remote Computing.
AD- 767 071

Cost Tradeoffs Between Local and Remote Computing.
AD-A011 376

Costs and Benefits of Aquatic Weed Control.
AD-A067 424

Costs and Benefits of Requiring New Production of Older Aircraft Types to Meet Amended Noise Standards.
AD-A080 130

Costs and Decision-Making Processes in Non-Profit, General-Purpose Hospitals.
AD-A078 155

Costs and Payoffs in Perceptural Research.
AD- 770 556

Costs of the Next Due Base-Level Inspection during a Depot Visit.
AD-A026 299

Criteria for Evaluating the Cost Effectiveness of Optical Character Recognition Equipment in Base Telecommunications Centers.
AD- 787 197

Criteria for Evaluating the Performance of Compilers.
AD-A002 322

Criteria for Evaluating Weapon System Reliability, Availability and Costs.
AD- 777 456

A Critique of Aircraft Airframe Cost Models.
AD-A047 181

A Critique of Cost Analysis.
AD- 766 376

A Critique of Cost-Effectiveness.
AD-A022 195

Data Management Systems for Structured Information Retrieval.
AD- 776 808

Data Storage Decisions for Large Data Bases.
AD-A023 874

DC-9 Noise Retrofit Feasibility. Volume I. Lower Goal Noise. Performance and Cost Evaluation.
AD- 776 127

DC-9 Noise Retrofit Feasibility. Volume II. Upper Goal Noise. Performance and Cost Evaluation.
AD- 777 895

Deadline Cost Model Study.
AD-A018 624

Decision Criteria for Cost-Plus-Award-Fee Contracts in Major Systems Acquisitions.
AD-A070 092

Decision Theory Research.
AD- 779 861

Defense Use of Military Personnel In Industrial Facilities, Largely Unnecessary and Very Expensive.
AD-AC79 580

Definition of a Systematic Cost- and Logistics-Effectiveness (Scale) Procedure.
AD-A021 115

Deflation of the 18 Sector Soviet Input-Output Tables.
AD-A059 283

Demonstration Model System. Volume I. Mathematical Models.
AD-A073 968

Demonstration Model System. Volume II. The Naval Electronics Design Cost Model (NEDCOM): Program Manual.
AD-A073 969

Demonstration Model System. Volume III. NEDCOM User's Guide.
AD-A073 970

Demonstration Model System. Volume IV. Slide-Rule Model System Program Manual.
AD-A073 971

Demonstration Model System. Volume V. Slide-Rule Model System User's Guide.
AD-A073 972

Demonstration of a Logistics Support Cost Model for Stage III of the Digital European Backbone Program.
AD-A032 202

Denumerable State Markov Decision Processes with Unbounded Costs.
AD- 771 432

Dependent (Conditional) Probability Aspects of Cost Estimating.
AD-A029 318

A Description of a Life Cycle Cost Model for Inertial Navigation Systems.
AD- 785 392

A Design-Aid and Cost Estimate Model for Suppressive Shielding Structures.
AD-A020 508

Design Assessment of Advanced Technology Lightweight, Low-Cost Mission-Configured Gondola Modules.
AD-A073 554

Designing a Manual Cost Data Base.
AD-A006 508

Design of a Facility to Implement a Low Cost Process for Production of NHC.
AD-A070 020

Design of Solar Heating and Cooling Systems.
AD-A062 719

Design to Cost and Life Cycle Costing: Complementary or Dichotomous.
AD-A029 255

'Design to Cost' Buzz-Word or Viable Concept.
AD- 763 624

Design to Cost (DTC) Implementation Guidance.
AD-A069 389

Design to Cost of Advanced Lightweight Torpedo.
AD-A028 407

Design to Cost Policy Versus Implementation.
AD-A028 859

The Design to Unit Production Cost (DTUPC): Range of Applicability to Development Procurements.
AD-A011 186

The Deterioration of Pension Plan Conditions in Large Corporations: The Need for More Extensive Disclosure.
AD-A021 944

The Development and Evaluation of a Cost-Based Composite Scheduling Rule.
AD- 777 354

Development of a Dynamic Simulation Filter.
AD-B001 641

Development of a Field Labor Rate for Army Aviation Maintenance.
AD-A059 290

Development of a Low-Cost Composite Die Using High-Energy-Rate Forming (HERF).
AD- 771 957

The Development of a Methodology for Estimating the Cost of Air Force On-the-Job Training.
AD- 785 141

The Development of a Predictive Model for First Unit Costs Following Breaks in Production.
AD- 785 953

The Development of Alternative Food Cost Indexes.
AD-A009 096

Development of Cost Escalation Indexes for Operation and Maintenance Budget Categories.
AD-A061 817

Development of Cost Estimating Relationships for Aircraft Jet Core-Engine Overhaul Costs.
AD-A047 667

Development of Cost Estimating Relationships for FLEETSATCOM. Volume I.
AD- 775 628

Development of Cost Parameters and Inventory Level Decisions at DSUs (Direct Support Units).
AD- 770 939

Development of Design Criteria, Cost Estimates, and Schedules for an MHD High Performance Demonstration Experiment.
AD- 766 232

Development of Improved Criteria for Determining the Need for Pricing Staff Action.
AD-A075 582

Development of Methods for Analysis of the Cost of Enlisted Attrition.
AD-A047 198

Development of RMS Cost Model and Demonstration of Alternative OH-58 Maintenance Scenarios.
AD-A017 769

Development Report for High-Reliability, Low-Cost Integrated Circuits.
AD-A062 706

A Difference Equation Approach to the Optimal Control of a Multiclass Queue with Discounted Costs.
AD-A017 658

Digital Avionics Information System (DAIS). Volume I. Reliability and Maintainability Model.
AD-A056 530

Digital Avionics Information System (DAIS). Volume II. Training Requirements Analysis Model Users Guide.
AD-A061 739

The Dilemma of Uncertainties Associated with Cost Estimating in the Project Management Office.
AD-A029 274

Directed Licensing: An Evaluation of a Proposed Technique for Reducing the Procurement Cost of Aircraft.
AD-A007 064

Discounting Theory and its Application in the Public Sector.
AD-A066 557

Documentation of Analytical Services Provided in Support of Navy Enlisted Personnel Projections for POM-80.
AD-A063 529

DOD 'Total Force Management' -- Fact or Rhetoric.
AD-A077 264

Dual Column Operation for Gas Chromatograph-Mass Spectrometer.
AD-A034 309

A Dynamic Theory of Contractual Incentives.
AD-A052 822

Dynamic Theory of Production Correspondences. Part III.
AD-A057 951

Earth Heat Sinks for Underground Power Sources.
AD- 758 292

Earth Terminal Subsystem Study. Volume 1 - Small Terminal Cost Analysis.
AD-A073 429

An Econometric Analysis of Volunteer Enlistments of Service and Cost Effectiveness Comparison of Service Incentive Programs.
AD-A001 033

Economic Analysis Handbook Theory and Application. Volume III. Guide for Reviewers of Economic Analysis.
AD- 771 988

Economic Analysis Handbook Theory and Application. Volume IV. Case Studies.
AD- 771 989

An Economic Analysis of Lay-Offs.
AD-A026 386

An Economic Analysis of Life Cycle Military Manpower Maintenance and Training Requirements in Avionics Minicomputer and Microcomputer Systems.
AD-A052 661

An Economic Analysis of the Relevant Costs in Air Force Building Replacement.
AD- 776 781

Economic Analysis of the Rotary Kiln and Fluidized Bed P and E Incinerators.
AD-A052 298

Economic Comparison of Wood-Preservative Treated and Untreated 105mm Ammunition Boxes.
AD-A001 532

Economic Escalation and the Military Program Manager.
AD-A026 557

An Economic Model to Determine Costs when Intermediate Level Repair Uses Remotely Located Automatic Test Equipment.
AD-A006 341

Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume I.
AD-A058 272

Economic Requirements Analysis of Civil Air Navigation Alternatives. Volume II.
AD-A059 228

Economic Theoretical Structure of Cost-Benefit Analysis
AD- 773 870

The Effect of Price Competition on Weapon System Acquisition costs.
AD-A078 232

The Effects of Developmental Software on the Acquisition Management of Aeronautical Computer Systems.
AD A030 217

Efficiency Indicators for Education and Training.
AD-A028 654

Electronics-X: A Study of Military Electronics with Particular Reference to Cost and Reliability. Volume 1: Executive Conspectus.
AD- 783 007

Electronics-X: A Study of Military Electronics with Particular Reference to Cost and Reliability. Volume 2: Complete Report.
AD-A001 065

ELF Communications SEAFARER Program. Site Survey. Michigan Region. Antenna Construction Cost Factors and Installation Plan.
AD-A036 405

Engineering and Design Cost/Rate Forecasting System. Volume I. Model Development and Data Analysis.
AD-A061 127

Engineering and Design Cost/Rate Forecasting System. Volume II. User's Manual.
AD-A061 108

Engineering Economic Analysis of Alternatives Using Benefits as Criteria for Evaluation.
AD- 787 045

Engine Systems Ownership Cost Reduction - Aircraft Propulsion Subsystems Integration (APSI).
AD-A030 788

Environmental Effects on Maintenance Costs for Aircraft Equipment.
AD-A025 801

Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 1. Cedar River Basin.
AD-A042 166

Environmental Planning for the Metropolitan Area Cedar-Green River Basins, Washington. Part II. Urban Drainage Study. Appendix A. Regional Sub-Basin Plans. Volume 2. Green River Basin.
AD-A042 167

Equilibrium Analysis of Effects of a Price Change of an Input Factor in the Context of Input-Output System.
AD-A017 540

Estimated Costs of Extended Low-Rate Airframe Production.
AD-A054 834

Estimating Aircraft Acquisition Costs by Parametric Methods.
AD- 913 440

Estimating Life-Cycle Costs: A case Study of the A-7D.
AD-A011 643

Estimating the Cost of On-the-Job Training in Military Occupations: A Methodology and Pilot Study.
AD- 783 936

Estimating the Marginal Balance of Payments Cost of Overseas Homeporting.
AD-A006 783

Estimation of UG3RD Capacity Impacts.
AD-A037 079

Evaluation of Environmental and Economic Benefits through Use of Synthetic Motor Oils.
AD-A046 277

Evaluation of F-15 Operations and Maintenance Costs Based on Analysis of Category II Test Program Maintenance Data.
AD-A021 258

Evaluation of F-16 Subsystem Options Through the Use of Mission Completion Success Probability and Designing to System Performance/Cost Models.
AD-A021 263

An Evaluation of Material Cost Escalation Impact on Proposals at Boeing Wichita
AD-A023 530

Evaluation of Methodology for Estimating the Cost of Air Force On-the-Job Training.
AD-A005 298

Evaluation of Polypropylene and Polyethylene Cushion Wrap Materials.
AD-A039 089

Evaluation of Postage Meters and Decentralized Accountability for Official Mail Costs.
AD-A073 003

Evaluation of Proposed Criteria to be Used in the Selection of Candidates for Reliability Improvement Warranties.
AD-A006 335

Evaluation of Purchase Cost Factors.
AD-A055 665

Evaluation of the Engineering Change Proposal Cost Evaluation Model.
AD-A073 067

An Evaluation of the GNP Deflator as a Basis for Adjusting the Allowable Price of Crude Oil.
AD-A036 146

An Evaluation of the Replacement Criteria for Select Air Force Commercial General Purpose Motor Vehicles.
AD- 785 455

An Examination of Alternative Methods for Employing Booms to Contain Oil Spills in Navy Harbors.
AD- 783 790

Executive Summary of the Navy Weapon System Life-Cycle Cost Model (WSCOM).
AD-A014 319

An Exploratory Study of Software Cost Estimating at the Electronic Systems Division.
AD-A030 162

An Extension of Cost Estimating Relationships for Airframes of Remotely Piloted Vehicles.
AD-A003 352

An Extension of Engine Weight Estimation Techniques to Compute Engine Production Cost.
AD-A074 454

Facilities Maintenance Demonstration Study.
AD-B009 681

Feasibility and Cost Effectiveness of Airborne Tire Pressure Indicating Systems.
AD-A065 513

The Feasibility of a Fare Bus System for Work-Commuting at Wright-

Patterson AFB, Ohio.
AD-A030 296

The Feasibility of a Geographic Pay Supplement for CONUS Military Personnel.
AD-A032 797

Feasibility Study of a Cost-Effective Composite Materials Maximum Performance Escape System Seat.
AD-A076 373

Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model, Phase I.
AD-A021 075

Federal Aviation Administration Printed Circuit Board Analysis-Cost Vs. Benefit Study.
AD- 781 857

A Fee Collection Mechanism for the Oil Pollution Liability and Compensation Legislation.
AD-A061 403

The FFG-7 Frigate an Application of the Design-to-Cost Concept.
AD-A062 169

Fiber- and Integrated-Optic Communication Technology.
AD- 771 402

Financial Status of Major Federal Acquisitions, September 30, 1979.
AD-A080 652

Financing the Airport and Airway System: Cost Allocation and Recovery.
AD-A064 454

First Destination Transportation Cost for Ammunition.
AD-A017 563

Flight Test of a Composite Multi-Tubular Spar Main Rotor Blade on the AH-1G Helicopter. Volume II. Cost Estimates and Process Specifications.
AD-A046 279

Forecasting Depot Overhaul Costs of Tactical Missile Guidance and Control Subsystems.
AD-A059 567

Foreign Military Sales. Construction of a Replacement Price (Some Considerations, Problems and Potential Solutions).
AD-A037 384

Foreign Military Sales (FMS): Costs, Benefits, and a New Approach.
AD-A039 922

Forms of Ownership and a Cost-Effective Shipbuilding Industry.
AD-A069 120

Fuel Cost Escalation Study.
AD-A040 209

Fuel from Organic Matter.
AD-A002 204

General Guidance for Cost Analysis of Commercial and Industrial-Type Real Property Maintenance Activities.
AD-A024 140

A General Technique for R and D Cost Forecasting.
AD-A046 105

A General Treatment of Upper Unbounded and Bounded Hitchcock Problems.
AD-A002 678

A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary.
AD-A031 843

A General Warehouse Module Conceptual Design and Cost Analysis. Volume II. Main Text and Appendices.
AD-A031 384

A Generalized Analysis of the Performance of a Variety of Drive Systems for High Reynolds Number, Transonic, Wind Tunnels.
AD- 784 883

Generalized Cost/Performance Trade-Off Analysis.
AD- 781 717

Getting 'Real' Data for Life-Cycle Costing.
AD-A010 960

Guidance for Selection of Equipment Fleet.
AD- 770 927

Guide for Monitoring Contractors' Indirect Cost.
AD-A009 951

Guide for Monitoring Contractors Indirect Costs.
AD- 772 078

Guidelines for Attracting Private Capital to Corps of Engineers Projects.
AD-A041 571

Guidelines for Cost Estimation by Analogy.
AD- 765 878

Guidelines for Design to Unit Production Cost (DTUPC).
AD- 768 787

Guidelines for Preparing Economic Analysis for Army Aircraft Product Improvement Proposals.
AD- 776 938

Guidelines for the Acquisition of Software Packages.
AD- 782 477

Handbook for Estimating Conversion Costs of Large Business Programs.
AD-A065 145

Handbook for the Implementation of the Design to Cost Concept.
AD-A012 802

Hard Data Sources Concerning More Cost Effective Maintenance.
AD-A029 198

Health Care Cost Sharing and Cost Containment.
AD-A032 220

A Hierarchical Approach to Production Planning.
AD-A019 947

The Higher Costs of Buying Less.
AD-A009 931

A Historical Analysis of Total Package Procurement, Life Cycle Costing, and Design to Cost.
AD-A030 141

Historical and Forecasted Aeronautical Cost Indices.
AD-A022 794

Historical Escalation of Operation and Maintenance Costs for Field Generator Sets.
AD-A059 863

Historical Inflation Program.
AD-A020 669

Historical Inflation Program (A Computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft).
AD-A030 024

Historical Inflation Program (A computerized Program Generating Historical Inflation Indices for the Procurement of Army Aircraft).
AD-A049 847

Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition-Appendix A.
AD-A075 2.9

Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition.
AD-A075 272

Hybrid Technology Cost Reduction and Reliability Improvement Study.
AD-A062 247

Hybrid Technology Cost Reduction Improvement Study Program. Volume I. Results of Literature Search and Questionnaire Survey.
AD-A062 406

Hybrid Technology Cost Reduction Improvement Sudy Program. Volume II. Abstracts of Articles on Hybrid Microcircuits.
AD-A062 407

I/J Band Low-Cost Crossed-Field Amplifier.
AD-A063 928

An Identification and Characterization of Cost Models/Techniques used by the Air Force Logistics Command to Estimate Jet Engine Operation and Support Costs.
AD-A044 083

Identification and Definition of the Management Cost Elements for Contractor Furnished Equipment and Government Furnished Equipment.
AD-A061 300

The Impact of Cost Accounting Standard Number 409 on the Defense Industry.
AD-A076 630

The Impact of Direct Cost Funding on Test Center Management.
AD- 787 216

The Impact of Independent Cost Analyses on DOD Acquisition Management.
AD-A042 780

The Impact of Required Contractual Clauses on System Acquisition Policies: The Case of Value Engineering.
AD-A018 526

The Impact of Ship Design Margins.
AD-A015 638

The Impact on Avionic Logistic Support Costs of False Maintenance Actions.
AD- 777 246

Implementation of Risk Assessment in the Total Risk Assessing Cost Estimate (Trace).
AD-A041 467

Implementing Replacement Cost Accounting.
AD-A036 177

Implementing Usage-Sensitive Charges for AUTODIN. Volume I. Basic Study.
AD-A076 217

Implementing Usage-Sensitive Charges for AUTODIN. Volume II. AUTODIN Technical Appendices.
AD-A076 218

Incorporating Project Cost

Considerations into Stochastic PERT (Project Evaluation and Review Technique).
AD-A025 021

Incremental Costing Model for Use with the CNET Per Capita Course Costing Data Base: System I.
AD-A081 759

Independent Cost Estimate of the GAU-8 Aluminum Cartridge Case.
AD-A017 222

Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary.
AD-A028 374

Industrial Management Survey of AFEES' Operations. Volume 2. Findings, Conclusions, and Recommendations.
AD-A028 375

Industrialized Building Construction Time/Cost Model - First Quarter FY 76 Results.
AD-A023 750

Influence of Noise Reduction on Weigh, and Cost of General Aviation Propellers.
AD-A082 120

Inhibitors to the Use of Life Cycle Costing: Results of a Survey of Military/Industrial Managers.
AD-A072 553

In.t'al Operational Support: An Alternate Approach.
AD-A042 933

Integrated Tactical Communications System (INTA^S). Task III. Communications System Effectiveness and Cost Methodology Development.
AD-B002 031

Integrated Thermal Avionics Design (ITAD).
AD-A061 227

Integration of Hybrid Structure into Low-Cost Aircraft Design - Rationale and Methodology.
AD-A023 416

Intelligence System Designer's Memory Evaluation Program.
AD- 771 793

Interactive Computer Graphics: A Responsive Planning and Control Tool for DoD Program Management.
AD-A041 798

Internal Telephone Billing Rates - A Novel Application of Non-Atomic Game Theory.
AD-A047 109

Interpretations of Task Difficulty in Terms of Resources: Efficiency, Load, Demand, and Cost Composition.
AD-A070 937

Introduction to Multiple State Multiple Action Decision Theory and Its Relation to Mixing Structures.
AD-A036 371

Introduction to the USAF Total Force Cost Model.
AD-A042 460

Inventory Costs at US Army Materiel Command Depots.
AD-A021 717

Investigation of a Low-Cost Servoactuator for HYSAS.
AD-A059 188

An Investigation of Changes in Direct Labor Requirements Resulting from Changes in Avionics Production Rate.
AD-A077 725

Investigation of the Cost/Effectiveness of Numerical Control Manufacture of Quick Reaction Spare Parts.
AD-A024 749

Investigation of the Impact of Rent-Across-the-Board.
AD- 775 233

An Investigation of the Relationship of Section Production Costs to Total Production Costs of Gas Turbine Engines.
AD-A044 172

Isoquants of Continuous Production Correspondences.
AD-A014 307

Issues and Problems in Life Cycle Costing in DOD Major Systems Acquisition.
AD-A028 951

Joint Generalized Least Squares Applied to Cost Estimation for Fighter Aircraft.
AD-A003 354

The Labor Market of the United States Shipbuilding Industry, 1960-1970.
AD-A059 224

LCC Analysis of Flight Recorder for F-4 Wild Weasel Aircraft.
AD-A023 830

LCC/DTC Tasks Conducted for GPS army User Equipment.
AD-A072 310

LCC/DTC Tasks Conducted for MX Weapon System Program.
AD-A050 583

A Lease versus Buy Decision Methodology for the Army: A proposal.
AD-A068 537

Life Cycle Analysis of Aircraft Turbine Engines: Executive Summary.
AD-A039 062

Life Cycle Cost Analysis Model. Part I. The Mathematical Model.
AD-A067 882

Life Cycle Cost Analysis of Instruction-Set Architecture Standardization for Military Computer-Based Systems.
AD-A059 306

Life Cycle Cost Analysis of Merchant Ship Expeditionary Logistic Facilities.
AD- 773 014

Life Cycle Cost Management Guidance for Program Managers.
AD-A069 388

Life Cycle Cost Model.
AD-A013 369

Life Cycle Cost of C-130E Weapon System.
AD-A044 046

Life Cycle Cost Study of Army Spectrometric Oil Program (ASOAP).
AD- 786 501

Life Cycle Cost/System Effectiveness Evaluation and Criteria,
AD- 916 001

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Life Cycle Costing and the Effect of Ownership Costs.
AD-A027 288

Life Cycle Costing of an Emerging Technology: The Fiber Optics Case.
AD-A031 839

Life Cycle Management of Army Tactical Management Information Systems (TACMIS).
AD-A032 499

Life Cycle Navy Enlisted Billet Costs--FY78.
AD-A058 250

Life Cycle Time and Cost Estimates for Squad Automatic Weapon System Candidates.
AD-A013 514

Limit Criteria for Low Cost Airframe Concepts.
AD- 777 572

LOCAM 5. Volume II. Programmer/Users Manual.
AD-A039 474

A Logistic/Cost-Effectiveness Model for Flares.
AD-A007 121

Logistic Support Cost Commitments for Life Cycle Cost Reduction.
AD-A043 034

Logistical Simulation Model for the Light Weight Company Mortar: A Technique for Computing Support Cost and Operational Availability.
AD-A003 230

A Logistics Support Cost Analysis of the Advanced Aerial Refueling Boom.
AD-A032 274

Low Cost Aircraft Flutter Clearance.
AD-A079 293

Low Cost Anti-Jam Digital Data-Links Techniques Investigations. Volume III.
AD-A082 328

Low Cost Components: Selection and Acquisition of Microelectronic Devices.
AD-A067 667

Low-Cost Computer-Aided Instruction/Computer-Managed Instruction (CAI/CMI) System: Feasibility Study.
AD-A081 072

Low-Cost, Crossed-Field Amplifier Meanderline Circuit Concepts.
AD-A061 147

Low Cost Expendable Engine.
AD-A062 864

A Low-Cost, General Purpose Data Acquisition and Control System for the PDP-11 Minicomputer.
AD-A050 224

Low Cost, Low Power Dissipation Micro-Signal Processor for Acoustic Signal Processing.
AD-A080 308

Low Cost Oxygen Electrodes.
AD- 769 905

Low-Cost Solvents for the Preparation of Polyphenylquinoxalines.
AD-A065 552

Low-Cost Terminal Alternative for Learning Center Managers.
AD-A082 343

Lower Bounds for a Quadratic Cost Functional.
AD-A034 930

Lower Cost by Substituting Steel for Titanium.
AD-A067 997

The Magnitude of Internal Rework on the F-4 Aircraft during Depot Level Maintenance at Ogden Air Logistics Center.

AD-A032 458

The Magnitude of Variability in Cost Estimates.
AD- 765 446

Maintainability Demonstration Cost Savings Analysis.
AD- 773 907

Maintenance Costs of Complex Equipment.
AD-A071 473

Maintenance Expenditure Limits (MEL) Tires.
AD-A046 621

Maintenance Surcharge for Range Use at the Pacific Missile Test Center.
AD-A076 833

Majo: Item Special Study (MISS), AH-1G Gas Turbine Engine (T53-L-13B).
AD- 776 939

Making Better Use of Optimization Capability in Distribution System Planning.
AD-A058 273

Management of Special Tooling and Special Test Equipment Acquired on Major Weapon System Acquisition Programs.
AD-A028 408

Management Strategies for ADP Networking.
AD- 785 876

Managerial Inventory Formulations with Stockout Objectives and Fiscal Contraints.
AD-A052 681

Managing Cost Overrun Engineering Change Proposals.
AD-A009 183

Manpower Cost Reduction in Electronics Maintenance: Framework and Recommendations.
AD- 784 444

Manpower/Hardware Life Cycle Cost Analysis Study.
AD-A081 513

Manufacturing Cost Data Collection and Analysis for Composite Production Hardware.
AD-A073 507

Manufacturing Technology Cost Drivers Study of Aircraft Rework, Overhaul and Remanufacture Processes. Volume I.
AD-A078 004

Marginal Cost Factors for High Performance Ships and their Impact on Subsystem Design.
AD-A075 530

Marginal Cost Factors for Surface Combatant Ships.
AD-A022 311

A Mean Cost Approximation for Transportation Problems with Stochastic Demand.
AD-A013 711

Measurement of Technological Innovation by Firms.
AD-A021 712

A Method for Least-Cost Scheduling of Personnel through Training Course Sequences.
AD- 783 629

A Methodology and Analysis for Cost-Effective Training in the AN/TSQ-73 Missile Minder.
AD-A077 943

Methodology for Control of Life Cycle Costs for Avionics Systems.
AD-A069 973

A Methodology for Determining Investment Costs for Automated Storage Facilities.
AD- 777 864

Methodology for Establishing Equipment Utilization Standards.
AD-A058 559

A Methodology for Estimating Jet Engine Costs Early in Weapon System Acquisition.
AD-A033 667

A Methodology for Estimating the Economic Benefits of an Aircraft Engine Warranty.
AD-A047 282

Methodology for Producing Low Cost/Disposable Mandrels.
AD-A081 990

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume I.
AD-A072 348

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II.
AD-A072 349

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II. Appendix I.
AD-A072 350

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume II. Appendix II.
AD-A072 351

Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality, Standardization and Specialization. Volume III.
AD-A072 352

Methods for Estimating Effectiveness and Cost of Civil Defense Program Elements.
AD-A057 343

Microeconomic Theory Applied to Parametric Cost Estimation of Aircraft Airframes.
AD-A020 210

Military Construction Engineering and Design Cost Forecasts.
AD-A035 262

Military Construction Supervision and Administration Cost Forecasts.
AD-A040 742

Military Cost Analysis in the FCRCs (Federal Contract Research Centers) - 1950-1975.
AD-A019 701

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AD- 920 773

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AD- 920 774

Minimizing a Project Cost with Bounds on the Expectation and Variance of the Delay Time.
AD-A058 137

Minimizing the Cost of Completing a Project Subject to a Bound on the Expected Delay Time.
AD-A027 882

Minimizing the Cost of Projects in Naval Shipyards.
AD- 769 801

Minimum Life Cycle Costing for a V/STOL Transport.
AD- 768 133

The Mission Trade-Off Methodology (MTOM) Model: User's Manual.
AD-A062 947

A Model to Predict Final Cost Growth in a Weapon System Development Program.
AD-A016 040

Modeling Navy Ship Acquisition.
AD-A080 089

Models and Methodology for Life Cycle Cost and Test and Evaluation Analysis.
AD- 782 182

Modified Cost Estimating Model for 20mm - 40mm Automatic Cannon Ammunition Initial Production Facilities.
AD-A024 556

The Move Towards Marginal Cost Pricing in Electricity.
AD-A037 920

Multifrequency Arrays: Design and Cost Considerations.
AD-B006 333

Multilevel Modularization of Systems to Minimize Life Cycle Cost.
AD-A061 636

A National Health Program.
AD-A023 881

Naval Aircraft Operating and Support Cost-Estimating Model - FY77 Revision.
AD-A068 175

Naval Aircraft Operating and Support Cost Model - FY76 Revision.
AD-A053 180

Naval Medical Care Study: Costs and Economic Efficiency.
AD- 782 569

Naval Reserve Annual Operating Costs.
AD-A022 115

Navy Air-Launched Missile Operating and Support Cost Estimating Model.
AD-A069 527

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume I. Study Synopsis.
AD-A045 162

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume II. A Candidate Electronics Manufacturing Technology Plan.
AD-A045 163

The Navy Manufacturing Technology Electronics Study. A Plan for Cost Effective Electronics in the Navy. Volume III. Appendices.
AD-A045 164

Navy Medical Care Study: Alternatives to a Physician Shortfall.
AD-A022 789

Navy Medical Care Study: Planning and Programming.
AD-A022 788

Navy Medical Care Study. Planning and Programming. Appendices.
AD-A022 787

Navy Reliability and Maintainability Policy Study.
AD-A007 437

Navy Systemwide Stock Rationing.
AD- 771 354

Navy Weapon System Life-Cycle Cost Model.
AD-A003 905

A New Methodology for Analytical Cost Effectiveness Comparisons of Air Defense Systems.
AD-A000 823

New Remotely Piloted Vehicle Launch and Recovery Concepts. Volume I. Analysis, Preliminary Design and Performance/Cost Trade Studies.
AD-A077 475

The Non Candidate Constraint Method for Reducing the Size of a Linear Program.
AD-A082 423

Nondestructive Evaluation of Airport Pavements. Volume II. Operation Manual for PAVBEN Program at TCC.
AD-A079 495

A Normative Cost-Benefit Analysis of the Systematic Design Methodology.
AD-A072 355

NSW GCOS Connection.
AD-A030 508

The Nuclear Hardening of Army Tactical Systems: A Trade-Off Methodology.
AD-A083 514

An Objective Functional Approach to Structuring Contractual Performance Incentives.
AD-A028 487

On Determining Cost Effectiveness of an Army Automatic Meteorological System.
AD-A002 013

On High Support Costs and Poor Reliabilities in Air Force Aircraft Equipments.
AD-A023 836

On the Benefit-to-Cost Ratio of Base-Level Stocking Decisions for Low Demand Items.
AD-A053 953

On the Existence of Relative Moral Hazard.
AD- 767 698

On the Reduction of Operating and Support Costs of Air Force Aircraft.
AD-A023 834

Operating and Support Cost Development Guide for Aircraft Systems.
AD-A001 747

An Operating and Support Cost Model for Aircraft Carriers and Surface Combatants.
AD-A044 744

An Operating and Support Cost Model for Avionics Automatic Test Equipment.
AD-A075 586

Operating and Support Costing Guide: Army Weapon Systems.
AD-A003 436

Operating Cost Evaluation of Sulfur Dioxide Removal Systems for Boiler Applications.
AD-A054 767

An Operational Version of the Depot Purchased Equipment Maintenance Allocation Model (DPEM MODEL).
AD-A041 426

Opportunities for Cost Reductions in the Testing of New Missile Systems.
AD-A024 014

The Opportunity Cost of the Nonmonetary Advantages of the Soviet Military R and D Effort.
AD-A028 088

Optimal Consumption with a Stochastic Income Stream.
AD-A004 568

Optimal Control of the M/G/1 Queueing System with Removable Server--Linear and Non-Linear Holding Cost Function.
AD-A030 646

Optima Project Compression with Due-Dated Events.
AD-A073 781

Optimal Selling when the Price Distribution is Unknown.
AD-A044 897

Optimal System Allocations with Penalty Costs.
AD-A017 238

Optimization of a Computer Security Index Versus Cost.
AD-A062 003

Optimization of the Time Between Aircraft Overhauls by Minimizing Maintenance Cost.
AD-A006 505

Optimizing the Cost Effectiveness of Military Corrections: An Assessment of Program Evaluations and Related Data.
AD-A058 575

Optimum Adjustment Policy for a Product with Two Quality Characteristics.
AD- 777 623

The Organizational Impact of C/SCSC Upon the Supervisor of

Shipbuilding.
AD-A009 907

Orientation-Error Accidents in Regular Army Aircraft During Fiscal Year 1970: Relative Incidence and Cost.
AD- 767 028

OSCR System Applications Analysis.
AD-A038 477

Overhaul/Rebuild Cost Study ARMCOM Items.
AD-A014 950

An Overview of DoD Policy for and Administration of Independent Research and Development.
AD-A013 362

An Overview of the Cost/Benefit Analyses for the Automated Technical Control (ATEC).
AD-A063 382

Parametric Cost Estimating.
AD-A039 563

Parametric Cost Estimating with Applications to Sonar Technology.
AD- 787 425

Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A013 258

Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A022 086

A Parametric Linear Complementarity Technique for the Computation of Equilibrium Prices in a Single Commodity Spatial Model.
AD-A066 518

Pareto Efficiency with Costly Transfers.
AD-A069 212

The Pentagon 'Four-Step'.
AD-A053 963

A Performance-Contingent Reward System That Uses Economic Incentives: Preliminary Cost-Effectiveness Analysis.
AD-A050 830

Performance/Cost Evaluation of Pipelined Cordic Function Units.
AD-A023 442

Periodic Replacement with Minimal Repair at Failure and Adjustment Costs.
AD-A014 385

Permutation Type Schedules on a Single Machine under Cost Criteria.
AD-A032 071

Petroleum Transportation Systems Study. Chapter III. Port Costs.
AD-A012 [illegible]97

Petroleum Transportation Systems Study. Chapter V. Refinery Operating Costs.
AD-A012 809

Phase II Final Development Report for High-Reliability, Low-Cost Integrated Circuits.
AD-A081 666

Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model.
AD-A021 083

Plant Equipment Package (PEP) Modernization Program. Volume 7. PEP Economic model.
AD-A045 503

The Possible Application of Numerically Controlled Manufacturing to Navy Supply System Procurement.
AD-A012 636

A Pre-Processor for a Structured Version of COBOL.
AD-A045 415

Predicted Crack Repair Costs for Aircraft Structures.
AD-A068 699

Predictive Operations and Maintenance Cost Model. Volume I.
AD-A078 052

Predictive Operations and Maintenance Cost Model. Volume II.
AD-A078 053

A Preliminary Calibration of the RCA Price S Software Cost Estimation Model.
AD-A046 808

A Preliminary Cost Analysis of the Communications Processor for the F-15 Joint Tactical Information Distribution System.
AD-A027 365

Preliminary Criteria for Optimizing the Cost Effectiveness of System Improvements to Enhance Survivability.
AD-A064 115

Preliminary Limited Surveillance Radar (LSR) Cost/Benefit Analysis.
AD-A046 829

Press Brake-Roll and Weld Fabrication of Prototype Large-Diameter Missile Motor Cases: production Cost Estimates.
AD- 766 342

Price Indexes for Soviet 18-Sector Input-Output Tables for 1959-1975.
AD-A059 169

Pricing for U.S. Army Technical Assistance Field Teams (TAFT).
AD-A078 279

The Pricing of Computer Services: A Bibliography.
AD-A048 782

Printed Wiring Board Production Assembly Cost Guidelines Manual.
AD-A026 944

Privacy Protection in Databanks: Principles and Costs.
AD-A023 406

Problems in Avionics Life-Cycle Analysis.
AD- 783 32'

Problems of the Improvement of Estimation, Account, Analysis and Forecasting the Prime Cost of Air Transportation.
AD-A046 665

Procedures and Methodology for Logistics Supportability Test and Evaluation.
AD- 918 945

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AD-A035 091

Procurement Contracting Officer's Guide to Cost Accounting Standards.
AD-A047 167

Producibility Engineering and Planning (PEP).
AD-A035 671

A Product Improved Method for Developing a Program Management Office Estimated Cost at Completion.
AD-A007 125

Product Improvement Program Evaluation.
AD-A042 134

Production Engineering Program to Develop Improved Mass-Production Process for M42/M46 Grenade Bodies.
AD-A058 278

The Production Function and Airframe Cost Estimation.
AD-A065 570

Production Lot Sizing with Material Handling Cost Considerations.
AD-A081 492

Production of Inconel 718 Mortar Tubes by Hydrostatic Extrusion.
AD- 783 415

Production of Pipes and Assembly of Pipelines and Pipe Systems on Ships (Izgotovlenive i Montazh Sudovykh Truboprovodov i Sistem).
AD-A044 295

Production Rate and Production Cost.

AD-A009 074

Project Scheduling with Discontinuous Piecewise Convex Activity Cost Functions.
AD-A060 500

A Proposed Aviation Energy Conservation Program for the National Aviation System. Volume II. The Intermediate and Long Run, 1979-1990.
AD-A064 466

PWB Production Assembly Cost Guidelines.
AD-A020 960

PWB Production Assembly Cost Guidelines (U).
AD-A018 962

A Quantitative Analysis of Estimating Accuracy in Software Development.
AD-A047 674

A Quantitative Examination of Cost-Quantity Relationships, Competition during Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume I Executive Summary.
AD- 778 612

A Quantitative Examination of Cost-Quantity Relationships, Competition During Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume II.
AD- 784 335

R, Q, Inventory Problem with unknown Mean Demand and Learning (A Sequel).
AD-A045 210

Ramjet Cost Estimating Handbook.
AD-A056 591

Rate Stabilization and Its Impact on U. S. Naval Shipyards.
AD-A081 146

Rate Stabilization at Navy Industrial Fund Research and Development Activities.
AD-A035 889

Rate Stabilization at Navy Industrial Fund Research, Development, Test and Evaluation Activities.
AD-A057 992

The RDT and E Program of the DoD on Training, FY 1977.
AD-A047 391

Real Estate Cost Estimating Techniques for PL 91-646 Relocation Costs.
AD-A075 511

Reducing Support Costs and Improving Reliabilities/Availabilities of Air Force Aircraft Equipment.
AD-A025 835

Reduction of the Cost of Feedback in Systems with Large Parameter Uncertainties.
AD-A046 012

Redundant Spares Allocation to Reduce Reliability Costs.
AD- 768 363

Redundant Spares Allocation to Reduce Reliability Costs-II.
AD- 780 908

A Regression Model Predicting Part Costs Machined by Numerically Controlled and Conventional Machinery.
AD-A025 133

Relating Technology to Acquisition Costs. Aircraft Turbine Engines.
AD- 780 636

Reliability Acquisition Cost Study (II).
AD-A020 457

Reliability, Maintainability, Strategic Reliability, and Life Cycle Cost Comparison Analysis of Three Alternative Mk 7: Mod 0 Gun Mount Control System Designs.
AD-A081 148

Reliability Trade-Offs for Unit Production Cost.
AD-A065 643

Remoteness-Compensation Methodology for Benefit/Cost Establishment and Discontinuance Criteria.
AD-A043 836

Report on Airport Capacity: Large Hub Airports in the United States.
AD-A041 435

Requirements and Alternative Designs for Automating the Publication of NAVSEA MOTD at the NSDSA.
AD-A036 122

The Requirements Determination Process for Naval Weapon Systems: An Organizational Analysis.
AD-A005 971

Research Proposal for Minimal Cost Sequential Machines.
AD- 778 765

Retail Stockage Policy under Budget Constraints.
AD-A041 308

A Review of General Accounting Office Decisions on Life Cycle Costing.
AD- 783 932

Review of Permanent Change of Station Travel Entitlements.
AD-A030 348

A Review of Software Cost Estimation Methods.
AD-A029 748

Revised Manning Requirements and Personnel Cost Savings for the Leased LOMX/NAVCOMPARS Systems.
AD- 783 532

Risk Analysis of the US Army 155mm Cannon-Launched Guided Projectile Program.
AD-A019 932

River and Harbor Aid to Navigation System (RIHANS) Phase 1-C: System Definition. Volume IV. Cost.
AD- 780 986

RMAC Analysis of CH-47 Helicopter.
AD-A015 117

RMS Cost Model User's Manual.
AD-A017 761

Rome Air Development Center R and D Program in Computer Language Controls and Software Engineering Techniques.
AD- 778 836

A Round-Trip Location Problem on a Tree Graph.
AD-A028 666

SATCOM 'EHF' Airborne Terminal Availability to Cost Analysis Demonstration.
AD-A076 163

Scheduled Maintenance Policies for the F-4 Aircraft: Results of the Maintenance Posture Improvement Program.
AD-A030 148

Scheduling Tasks with Exponential Service Times on Nonidentical Processors to Minimize Various Cost Functions.
AD-A062 471

The Secretary Problem with Interview Cost.
AD- 785 849

SEEK IGLOO Life Cycle Cost Model. Volume I. Cost Element Equations.
AD-A057 444

SEEK IGLOO Life Cycle Cost Model. Volume II. User's Manual.
AD-A059 222

SEEK IGLOO Life Cycle Cost Model. Volume III. Maintenance Manual.
AD-A058 632

Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis.
AD-A013 477

Sensitivity of Army Helicopter Operating and Support Costs to Changes in Design and Logistic Parameters.
AD-A040 353

Ship operating and Support Costs: Guidelines for Analysis.
AD-A040 447

The 'Should Cost' Concept.
AD- 779 359

A Simulation of the Reparable Processing Procedures Applicable to Reliability Improvement Warranties.
AD-A016 038

Simulators for Training and Profit.
AD-A038 190

Slow Descent Recovery System Technology Study and Data Program.
AD- 783 268

Software Acquisition Management Guidebook: Cost Estimation and Measurement.
AD-A055 574

Software Cost Estimation Study. Volume I. Study Results.
AD-A042 264

Software Cost Estimation Study. Volume II. Guidelines for Improved Software Cost Estimating.
AD-A044 609

Some Considerations in Analyzing Training Costs and Job Performance.
AD-A054 954

Some Fundamental Properties of Governmental Expenditure Patterns—Theory and Evidence Based on Military Expenditures.
AD-A081 999

Some Results from Applying a Cost-Effectiveness Model for Evaluating Aviation Weather Dissemination Techniques.
AD- 777 441

Some Results on An 'Income Fluctuation Problem'.
AD-A020 289

Sources and Nature of Cost Analysis Data Base Reference Manual.
AD-A065 864

Southeastern Michigan Wastewater Management Survey Scope Study. Design and Cost Appendix.
AD-A041 115

Special Termination Costs Clause. ASPR 8-712.
AD-A042 938

Standard Electronic Module Radar Life Cycle Cost Comparison.
AD-A071 110

The Static Theory of Transfer Pricing.
AD-A014 382

Statistical Risk Properties of the

Logistic Support Cost Commitment.
AD-A080 196

Strategic Implications of the Experience Curve Effect for Avionics Acquisitions by the Department of Defense.
AD-A046 006

Studies in Support of the AMARC: review of Cost Effectiveness Analysis. Volume 1.
AD- 785 894

A Study in the Application of the Cost Center Performance Summary to the Managerial Decision-Making Process.
AD- 785 950

Study of Commercial Specifications for U. S. Navy Ships.
AD- 777 130

Study of Comparative Costs for Far-Field Antenna Patterns Determined by Near-Field Measurements and by Far-Field Measurements.
AD- 775 472

A Study of Opportunistic Replacement Tactics for Modular Jet Engine Management.
AD-A044 184

A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command.
AD-A046 977

A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Appendices.
AD-A046 978

A Study of Ship Acquisition Cost Estimating in the Naval Sea Systems Command. Executive Summary.
AD-A046 976

A Study of the Cost-Effectiveness of Inventory Management Policies Based on Average Requisition Size.
AD-A046 249

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume I. Executive Summary.
AD-A036 363

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume II. Research Methodology.
AD-A033 364

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume III. Planning Guide.
AD-A036 365

Study of the Effects of Increased Costs on Corporate and Business Flying. Volume IV. Data Base.
AD-A036 366

A Study of Two Avionics Life Cycle Cost Models and Their Applicability in the Communications-Electronics-Meteorological Environment.
AD-A076 981

A Study of Variability of Construction Cost Estimates.
AD-A020 019

A Study to Develop Management Indices for the Chief of Naval Education and Training. Phase II - Capital Resource Indices.
AD-A029 195

Suggested Methods for Implementation of Life Cycle Costing Techniques in the Procurement of Air Force General Purpose Commercial Vehicles.
AD- 777 249

A Summary and Analysis of Selected Life Cycle Costing Techniques and Models.
AD- 787 183

A Summary and Analysis of the Initial Application of Life Cycle Costing Techniques to a Major Weapon System Acquisition.
AD-A061 304

A Summary and Analysis of the Logistics Support Cost Model Application to the ACF/F-16 Weapon System Acquisition.
AD-A072 592

Summary Notes of a Government/Industry Software Sizing and Costing Workshop.
AD-A026 964

Summary of Cost-Benefit Study Results for Navy Alcoholism Rehabilitation Programs.
AD-A042 795

Summary of Results of Antenna Design Cost Studies.
AD- 776 914

A Summary of the DABS (Discrete Address Beacon System) Transponder Design/Cost Studies.
AD- 776 140

Supervision and Administration Cost/Rate Forecasting System. Volume I. User's Manual.
AD-A053 229

Survey of Forced and Precautionary Landing Costs.
AD-A080 110

A Survey of Methods of Teaching Mathematics.
AD- 775 281

Synchronous Satellite Tracker Investigation.
AD- 773 848

Systems Analysis Directorate. Activities Summary, May 1977.
AD-A057 810

Systems Approach to Life-Cycle Design of Pavements. Volume I. LIFE2 User's Manual.
AD-A061 157

Systems Approach to Life-Cycle Design of Pavements. Volume II. LIFE2 System Documentation.
AD-A067 691

Systems Approach to Life-Cycle Design of Pavements. Volume III. LIFE2 Program Listing.
AD-A064 698

T and E Uniform Funding Policy, An Appraisal of the Fiscal Year 1975 Experience.
AD-A033 291

Tables of Quarternary S-Curves Based on 73%-75% R and D Curves and 67%-99% Production Curves. Volume 3.
AD-A000 559

Tables of Quarternary S-Curves Based on 76%-99% Production Curves. Volume 4.
AD-A000 560

Tables of Quarternary S-Curves Based on 79%-81% R and D Curves and 67%-99% Production Curves. Volume 5.
AD-A000 561

Tables of Quaternary S-Curves Based on 67%-69% R and D Curves and 67%-99% Production Curves. Volume 1.
AD-A000 557

Tables of Quaternary S-Curves Based on 70%-72% R and D Curves and 67%-99% Production Curves. Volume 2.
AD-A000 558

Tables of Quaternary S-Curves Based on 82%-84% R and D Curves and 67%-99% Production Curves. Volume 6.
AD-A000 562

Tables of Quaternary S-Curves Based on 85%-87% R and D Curves and 67%-99% Production Curves. Volume 7.
AD-A001 034

Tables of Quaternary S-Curves Based on 88%-90% R and D Curves and 67%-99% Production Curves. Volume 8.
AD-A000 564

Tables of Quaternary S-Curves Based on 91%-93% R and D Curves and 67%-99% Production Curves. Volume 9.
AD-A001 035

Tables of Quaternary S-Curves Based on 94%-96% R and D Curves and 67%-99% Production Curves. Volume 10.
AD-A001 036

Tables of Quaternary S-Curves Based on 97%-99% R and D Curves and 67%-99% Production Curves. Volume 11.
AD-A000 567

Target Missile Airframe Costs.
AD-A073 314

A Taxonomy of Cost Estimating Characteristics as Applied to an Aircraft Replenishment Spares Model.
AD-A030 239

Telecommunications Equipment Low-Cost Acquisition Method (TELCAM).
AD-A001 713

Test and Evaluation of the Army's CH-47 Helicopter Flight Simulator.
AD-A036 159

Test Program Set Cost Algorithm.
AD-A070 629

A Theory for Semi-Markov Decision Processes with Unbounded Costs and Its Application to the Optimal Control of Queueing Systems.
AD-A030 649

Three Life Cycle Cost Models for Inertial Systems.
AD-A000 483

Ti/Al Design/Cost Trade-Off Analysis.
AD-A054 693

The TPK Process and Impact of Fluctuations.
AD-A043 634

Trade-Off Study for Materials and Fabrication Processes for Advanced High Performance Ship Applications. Volume II. Appendices.
AD-A075 329

Training Developments: A Means to Reduce Life Cycle Costs.
AD-A045 447

The Training Division: A Good Investment.
AD-A024 389

Training Package: Foreign Military Sales (FMS) Agreements (Planning and Costing).
AD-A042 771

Training Resource Classifications: Direct-Indirect and Fixed-Variable Cost Categories.
AD-A029 179

Transforms and Approximations in Cost and Production Function Relations.
AD-A068 993

Transportation Costs as a Consideration in Air Force Contracts.
AD-A067 949

Trends in the Real Prices of Selected Construction Products and Materials, 1946-1976.
AD-A053 228

The U.S. Navy Foreign Military Sales Program.
AD-A026 559

Unattended Radar Station Design for Dewline Application. Volume II.
AD-A059 510

Uniform Ration Cost System - Summary Report.
AD-A016 111

Unit Training Costs as a Part of Life Cycle Cost: A Methodology.
AD-A056 087

United States General Aviation.
AD-A038 539

US Army, Air Force, and Navy RPMA consolidation in Panama. A Cost-Benefit Analysis. Volume I.
AD-A077 165

US Army, Air Force, and Navy RPMA consolidation in Panama. A Cost-Benefit Analysis. Volume II.
AD-A077 166

US Army Total Risk Assessing Cost Estimate (TRACE) Guidelines.
AD-A036 327

USAF Military Personnel Costing: Problems and Approaches.
AD-A047 761

Use of Computerized Support Modeling in Logistic Support Analysis.
AD- 783 487

The Use of Statistical Sampling in Contract Pricing.
AD-A030 716

The Use of the Maurer Factor for Estimating the Cost of a Turbine Engine in the Early Stages of Development.
AD-A073 018

Useful Life Cycle Cost Estimates for Defense Systems - An Evaluation.
AD-A026 560

User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume I. Model Formulation and Demonstration.
AD-A059 007

User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume II. User's Manual and Program Documentation for the User Delay Cost Model.
AD-A058 984

User Delay Cost Model and Facilities Maintenance Cost Model for a Terminal Control Area. Volume III. User's Manual and Program Documentation for the Facilities Maintenance Cost Model.
AD-A059 008

Users Manual: Forecast of Schedule/Cost Status Utilizing Cost Performance Reports of the Cost/Schedule Control Systems Criteria: A Bayesian Approach (FORTRAN IV).
AD-A011 401

Using Cost Analysis to Break the Overrun Habit.
AD-A042 935

Validation of the Detroit Diesel Allison Logistic Support Cost Model (Program OS 590).
AD-A072 670

The Value of the Base Level Industrial Engineer.
AD-A074 394

The Value of the Non-Atomic Game Arising from a Rate-Setting Application and Related Problems.
AD-A066 729

Venture Evaluation and Review Technique (VERT). Users'/Analysts' Manual.
AD-A078 656

VHF-FM Portion of the Single Channel Ground and Airborne Radio Subsystem Concept Formulation Package. Appendix IV. Cost and Operational Effectiveness Analysis.
AD-B009 251

Visibility and Management of Support Costs - Ships (VAMOSC II).
AD-A030 782

Wastewater Engineering and Management Plan for Boston Harbor - Eastern Massachusetts Metropolitan Area EMMA Study. Technical Data Volume 15. Recommended Plan and Implementation Program.
AD-A036 814

Water and Related Land Resources. Management Study. Volume V. Supporting Technical Reports Appendix. Annex F. Missouri Riverfront Corridor Land Use Plan and Program.
AD-A041 933

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports Appendix. Annex H. Regional Wastewater Management.
AD-A041 935

Water and Related Land Resources Management Study. Volume V. Supporting Technical Reports

Appendix. Annex K. Regional Water Supply. Appendix.
AD-A041 937

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume I. Cost Methods Research and Development.
AD- 783 639

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume I. Technical Volume.
AD-A016 408

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume II. Estimating Handbook and User's Manual. Part I.
AD-A016 409

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures Volume II - Estimating Handbook and User's Manual, Part II.
AD-A016 410

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume II. Supporting Design Synthesis Programs.
AD-A005 426

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume III. Cost Data Base.
AD-A000 399

Weapon System Costing Methodology for Aircraft Airframes and Basic Structures. Volume IV. Estimating Techniques Handbook.
AD- 785 375

Weapon System Costing Methodology Improved Structural Cost Analysis.
AD-A044 037

A Weapon-System Life-Cycle Overview: The A-7D Experience.
AD-A017 125

Winter Rate Study for Great Lakes-St. Lawrence Seaway System. Volume I.
AD-A021 210

Workload Analysis of a Military Repair Depot.
AD-A020 363

PERSONAL AUTHOR INDEX

ABBOTT, FREELAND K., JR
* * *
Criteria for Evaluating the Cost Effectiveness of Optical Character Recognition Equipment in Base Telecommunications Centers.
AD- 787 197

*ABRIEL, W. E.
* * *
Unattended Radar Station Design for Dewline Application. Volume II.
AD-A059 510

*ACTON, JAN PAUL
* * *
The Move Towards Marginal Cost Pricing in Electricity.
AD-A037 920

ADAMS III, JOHN R.
* * *
Logistical Simulation Model for the Light Weight Company Mortar: A Technique for Computing Support Cost and Operational Availability.
AD-A003 230

*ADEL, ROBERT E.
* * *
Three Life Cycle Cost Models for Inertial Systems.
AD-A000 483

*ADITYAVARNA, GEORGIUS WIRAWAN
* * *
Selection of a Naval Base System for Patrol Vessels: A Cost-Effectiveness Analysis.
AD-A013 477

*AGGARWAL, SUMER C.
* * *
The Development and Evaluation of a Cost-Based Composite Scheduling Rule.
AD- 777 954

*AGNEW, CARSON E.
* * *
A Cost Effectiveness Analysis of the Naval Modular Automated Communications System (NAVMACS).
AD-A049 940

ALBARES, D. J.
* * *
Fiber- and Integrated-Optic Communication Technology.
AD- 771 402

*ALEXANDER, ARTHUR J.
* * *
Comments on LMFBR Cost-Benefit Analysis.
AD-A022 296

*ALEXANDER, ROLAND T.
* * *
A General Warehouse Module Conceptual Design and Cost Analysis. Volume II. Main Text and Appendices.
AD-A031 384
* * *
A General Warehouse Module Conceptual Design and Cost Analysis. Volume I. Executive Summary.
AD-A031 843

ALLEN, D.
* * *
Avionics Installation (AVSTALL) cost Model for User Equipment of NAVSTAR Global Positioning System.
AD-A073 681

ALLEN, JAMES J., JR
* * *
Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model. Phase I.
AD-A021 075
* * *
Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model.
AD-A021 083

ALLEN, JAMES MARION
* * *
Unit Training Costs as a Part of Life Cycle Cost: A Methodology.
AD-A056 087

AMEY, D. M.
* * *
An Econometric Analysis of Volunteer Enlistments of Service and Cost Effectiveness Comparison of Service Incentive Programs.
AD-A001 033

*ANDERSEN, DUDLEY G.
* * *
Industrial Management Survey of AFEES Operations. Volume 1. Executive Summary.
AD-A028 374
* * *
Industrial Management Survey of AFEES Operations. Volume 2. Findings, Conclusions, and Recommendations.
AD-A028 375

*ANDERSON, CALVIN M.
* * *
Cost Effectiveness Analysis of Bonuses and Reenlistment Policies (CEABREP).
AD-A042 904

*ANDERSON, JOSEPH F.
* * *
Visibility and Management of Support Costs - Ships (VAMOSC II).
AD-A030 782

*ANDERSON, RICHARD H.
* * *
Models and Methodology for Life Cycle Cost and Test and Evaluation Analysis.
AD- 782 182
* * *
Handbook for the Implementation of the Design to Cost Concept.
AD-A013 802

*ANDERSON, WILLIAM P
* * *

Target Missile Airframe Costs.
AD-A073 314

*ANDREWS, MELVILLE M., JR
* * *
An Economic Analysis of the Relevant Costs in Air Force Building Replacement.
AD- 776 781

ANGUS, J. E.
* * *
Reliability Acquisition Cost Study (II).
AD-A020 457

APPELLOF, CARL J.
* * *
A Low-Cost, General Purpose Data Acquisition and Control System for the PDP-11 Minicomputer.
AD-A050 224

ARVS, R. L.
* * *
An Econometric Analysis of Volunteer Enlistments of Service and Cost Effectiveness Comparison of Service Incentive Programs.
AD-A001 033

*ARMSTRONG, BRUCE E.
* * *
Avionics Data for Cost Estimating.
AD-A043 265

*ARNOLD, JEFFREY H.
* * *
Air Mobility Fuel Cell Study.
AD- 766 757

*ARONOFF, ETHAN
* * *
Lower Bounds for a Quadratic Cost Functional.
AD-A034 930

*ARROW, KENNETH J.
* * *
Pareto Efficiency with Costly Transfers.
AD-A069 212

ASHER, NORMAN
* * *
A Quantitative Examination of Cost-Quantity Relationships. Competition during Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume I. Executive Summary.
AD- 778 612
* * *
A Quantitative Examination of Cost-Quantity Relationships. Competition During Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume II.
AD- 784 335

ASKREN, WILLIAM B.
* * *
Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition- Appendix A.
AD-A075 209
* * *
Human Resources, Logistics, and Cost Factors in Weapon System Development: Demonstration in Conceptual and Validation Phases of Aircraft System Acquisition.
AD-A075 272

AUCELLA, JOHN P.
* * *
Estimating the Marginal Balance of Payments Cost of Overseas Homeporting.
AD-A006 783

*AUGUSTA, JOSEPH H.
* * *
A Critique of Cost Analysis.
AD- 766 376
* * *
Bupers MPN Expenditure Estimating.
AD-A037 391

*BABIARZ, ANTHONY S.
* * *
A Model to Predict Final Cost Growth in a Weapon System Development Program.
AD-A016 040

*BAERST, C. F.
* * *
Alternate Subsonic Low-Cost Engine.
AD-A067 277

BAILEY, N. D.
* * *
The Mission Trade-Off Methodology (MTOM) Model: User's Manual.
AD-A062 947

*BAKER, MICHAEL D.
* * *
An Analysis of Information Sources for the Estimation of Life Cycle Operating and Maintenance Costs of Turbine Engines.
AD-A044 082

*BAKER, ROBERT L.
* * *
First Destination Transportation Cost for Ammunition.
AD-A017 563

*BALES, R. A.
* * *
Airport Surface Traffic Control Systems Development Analysis - Expanded.
AD-A013 579

*BANASH, ROBERT C.
* * *
Cost/Schedule Uncertainty Analysis of the XM1/Alternative Armament Programs.
AD-A027 402

BANDT, WILLIAM D.
* * *
Historical and Forecasted Aeronautical Cost Indices.
AD-A022 794

*BARAN, H. ANTHONY
• • •
Air Force Human Resources Laboratory Military Personnel Costing Conference.
AD-A013 171
• • •
USAF Military Personnel Costing: Problems and Approaches.
AD-A047 761
• • •
Digital Avionics Information System (DAIS). Volume I. Reliability and Maintainability Model.
AD-A056 530
• • •
Digital Avionics Information System (DAIS). Volume II. Training Requirements Analysis Model Users Guide.
AD-A061 389

*BARBERO, MARK
• • •
A Cost/Benefit Matrix Model of Nuclear Deterrence.
AD-A007 467

BARCLAY, SCOTT
• • •
Decision Theory Research.
AD- 779 861

BAREFOOT, DAVID B.
• • •
An Approach for Measuring Benefit and Cost in Management and Information Systems.
AD-A014 209

*BARKLEY, MARK E.
• • •
Users Manual: Forecast of Schedule/Cost Status Utilizing Cost Performance Reports of the Cost/Schedule Control Systems Criteria: A Bayesian Approach (FORTRAN IV).
AD-A011 401

*BARRETT, CHARLES W., JR
• • •
The Use of the Maurer Factor for Estimating the Cost of a Turbine Engine in the Early Stages of Development.
AD-A073 018

*BARTMAN, HERBERT M.
• • •
SATCOM 'EHF' Airborne Terminal Availability to Cost Analysis Demonstration.
AD-A076 163

*BARTON, H. A.
• • •
Cost Benefits Study - Interim 16mm Microfilm Container and Reel Assembly.
AD- 776 962

*BARTOSZYNSKI, R.
• • •
The Secretary Problem with Interview Cost.
AD- 785 849

*BATES, CALVIN D.
• • •
Low-Cost, Crossed-Field Amplifier Meanderline Circuit Concepts.
AD-A061 147

*BATTS, JOHN H.
• • •
Army Club Management Study 1977. Volume II. Appendices.
AD-A059 767

*BAUMBUSCH, GENEESE G.
• • •
The Impact of Required Contractual Clauses on System Acquisition Policies: The Case of Value Engineering.
AD-A018 526

*BAUMGARTNER, STEVEN J.
• • •
New Remotely Piloted Vehicle Launch and Recovery Concepts. Volume I. Analysis. Preliminary Design and Performance/Cost Trade Studies.
AD-A077 475

*BEASLEY, LOUIS J., JR
• • •
Evaluation of Postage Meters and Decentralized Accountability for Official Mail Costs.
AD-A073 003

*BECKETT, P. H. T.
• • •
The Cost-Effectiveness of Terrain Evaluation. Volume 1. Outline of Project: Field Work in 1971.
AD- 768 983

BEESON, JAMES B.
• • •
Cost/Schedule Uncertainty Analysis of the XM1/Alternative Armament Programs.
AD-A027 402

BELBOT, EDWARD
• • •
A Comparison of Maintenance Costs and RAM Characteristics of New and Overhauled M35A2 2-1/2 Ton Trucks.
AD-A071 068

BELGRANO, R.
• • •
Army Club Management Study 1977. Volume II. Appendices.
AD-A059 767

*BELL, ARCHIE C.
• • •
A Summary and Analysis of the Initial Application of Life Cycle Costing Techniques to a Major Weapon System Acquisition.
AD-A061 304

*BELL, JAMES P.
• • •
Implementing Usage-Sensitive Charges for AUTODIN. Volume I. Basic Study.

AD-A076 217
• • •
Implementing Usage-Sensitive Charges for AUTODIN. Volume II. AUTODIN Technical Appendices.
AD-A076 218

•BELL, RAYMOND
• • •
A Comparison of Maintenance Costs and RAM Characteristics of New and Overhauled M35A2 2-1/2 Ton Trucks.
AD-A071 068

BELL, S. E.
• • •
Unattended Radar Station Design for Dewline Application. Volume II.
AD-A059 510

BELL, THOMAS R.
• • •
Cost Analysis of Air Force On-the-Job Training: Development and Demonstration of a Methodology.
AD-A069 791

•BELLANCA, THOMAS J.
• • •
Cost Effectiveness Program Plan for Joint Tactical Communications, Volume III. Life Cycle Costing.
AD- 787 533

•BELTRAMO, MICHAEL N.
• • •
Considering the Cost of DOD personnel: A Look at Some Issues Requiring Further Analysis.
AD- 786 581

BENNER, LYNNE E.
• • •
Demonstration Model System. Volume II. The Naval Electronics Design Cost Model (NEDCOM): Program Manual.
AD-A073 969
• • •
Demonstration Model System. Volume III. NEDCOM User's Guide.
AD-A073 970

BENNETT, DEBBIE
• • •
A Quantitative Examination of Cost-Quantity Relationships, Competition during Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume I. Executive Summary.
AD- 778 612
• • •
A Quantitative Examination of Cost-Quantity Relationships, Competition During Reprocurement, and Military versus Commercial Prices for Three Types of Vehicles. Volume II.
AD- 784 335

BENNETT, G. V.
• • •
Lower Cost By Substituting Steel for Titanium.
AD-A067 997

•BENNETT, ROBERT WILMER
• • •
A Cost Analysis on Procuring Improved Technical Order Data for the F-15 Weapon System.
AD-A059 571

•BENNETT, WALTER H.
• • •
Economic Analysis Handbook Theory and Application. Volume III. Guide for Reviewers of Economic Analysis.
AD- 771 986
• • •
Economic Analysis Handbook Theory and Application. Volume IV. Case Studies.
AD- 771 989

BERCOS, JAMES
• • •
A Consideration of Army Training Device Proficiency Assessment Capabilities.
AD-A056 191

•BERENS, ALAN P.
• • •
Predicted Crack Repair Costs for Aircraft Structures.
AD-A068 699

•BERRY, JOHN B.
• • •
The Magnitude of Internal Rework on the F-4 Aircraft during Depot level Maintenance at Ogden Air Logistics Center.
AD-A032 458

BERTERMAN, J. E.
• • •
Cost Benefit Analysis and the National Aviation System - A Guide.
AD-A037 434

•BETAQUE, NORMAN E., JR
• • •
Aircraft System Operating and Support Costs: Guidelines for Analysis.
AD-A039 369

•BETHEL, HOWARD EMERY
• • •
An Overview of DoD Policy for and Administration of Independent Research and Development.
AD-A013 362

BETTNER, T.
• • •
Advanced Composite Cost Estimating Manual. Volume I.
AD-A041 495
• • •
Advanced Composite Cost Estimating Manual. Volume II. Appendix.
AD-A041 496
• • •
Advanced Composite Cost Estimating Manual. Volume II.
AD-A041 497

•BIALIK, JACK J.
• • •
Requirements and Alternative

Designs for Automating the Publication of NAVSEA MOTD at the NSDSA.
AD-A036 122

*BIEGEL, JOHN E.
• • •
Multilevel Modularization of Systems to Minimize Life Cycle Cost.
AD-A061 636

*BIEMER, PAUL P.
• • •
Incorporating Project Cost Considerations into Stochastic PERT (Project Evaluation and Review Technique).
AD-A025 021

*BIGGINS, J. A.
• • •
Navy Systemwide Stock Rationing.
AD- 771 354

*BILIKAM, J. E.
• • •
Cost-Estimating Relationships Using Linear, Log-linear and Non-linear Regression.
AD-A013 928

*BILLERA, LOUIS J.
• • •
Internal Telephone Billing Rates - A Novel Application of Non-Atomic Game Theory.
AD-A047 109

BIRKHEAD, ROY F.
• • •
An Appraisal of the Short-Term Cost Results of a Selected Number of Air Force Should Cost Studies.
AD-A016 262

BIRKLER, J.
• • •
Proceedings of OSD Aircraft Engine Design and Life Cycle Cost Seminar, Held at Naval Air Development Center Warminster, Pennsylvania November 19 20, and 21, 1975.
AD-A030 548

*BLANNING, ROBERT W.
• • •
A Dynamic Theory of Contractual Incentives.
AD-A052 822

BLELLOCH, JACK W.
• • •
Cost Effectiveness of Typhoon Forecast Improvements.
AD- 781 324

*BLEWITT, STEPHEN J.
• • •
Product Improvement Program Evaluation.
AD-A042 134

*BLISCHKE, WALLACE R.
• • •
Calculation of the Cost of Warranty Policies as a Function of Estimated Life Distributions.
AD-A001 015
• • •
Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties.
AD-A045 989

*BLOCH, HOWARD R.
• • •
A Compilation of Methodological Problems Confronting the Air Force in the Fields of Economics and Management. Phase I.
AD-A043 360

*BLOETSCHER, FREDERICK
• • •
Slow Descent Recovery System Technology Study and Data Program.
AD- 783 268

*BLOOM, BURTON H.
• • •
Criteria for Evaluating the Performance of Compilers.
AD-A002 322

*BLOOMQUIST, CHARLES E.
• • •
Navy Reliability and Maintainability Policy Study.
AD-A007 437

BOCAST, ALEX
• • •
Development of Methods for Analysis of the Cost of Enlisted Attrition.
AD-A047 198

BODDEN, WILLIAM E.
• • •
Development of a Field Labor Rate for Army Aviation Maintenance.
AD-A059 290

BOISSEAU, H. J.
• • •
Army Inventory Cost Parameters.
AD-A003 922

BOISSEAU, H. JAMES
• • •
Development of Cost Parameters and Inventory Level Decisions at DSUs (Direct Support Units).
AD- 770 839

*BOL, G.
• • •
Isoquants of Continuous Production Correspondences.
AD-A014 307

*BOMBER, THOMAS M.
• • •
CDEFUV: A Computer Implementation of a Generalized Unmanned Vehicle Cost Model.
AD-A079 038

*BONNA, RALPH ANTHONY
• • •
Discounting Theory and its Application in the Public Sector.
AD-A066 557

BONNER, WILLIAM J.
• • •
Three Life Cycle Cost Models for Inertial Systems.
AD-A000 483

*BOREN, H. E., JR
• • •
A Computer Model for Estimating Development and Procurement Costs of Aircraft (DAPCA-III).
AD-A025 276

*BORTHWICK, R. B.
• • •
Summary of Cost-Benefit Study Results for Navy Alcoholism Rehabilitation Programs.
AD-A042 795

*BOSWORTH, THOMAS J.
• • •
Trade-Off Study for Materials and Fabrication Processes for Advanced High Performance Ship Applications. Volume II. Appendices.
AD- 775 329

BOTERO, S. A.
• • •
Computer-Aided Final Design Cost Estimating System Overview.
AD-A040 119

*BOUDREAUX, LIONEL A.
• • •
A Comparative Analysis of the Relationships of Total Distribution Costs between Airlift and Sealift.
AD-A030 763

*BOURDON, GERARD A.
• • •
A Computerized Model for Estimating Software Life Cycle Costs (Model Concept). Volume 1.
AD-A053 937

*BOYD, EUGENT T.
• • •
Cost Effectiveness Program Plan for Joint Tactical Communications. Volume III. Life Cycle costing. Appendix G. Cost Uncertainty Analysis Model.
AD-A027 665

BOYNS, J. E.
• • •
Multifrequency Arrays: Design and Cost Considerations.
AD-B006 333

BRADLEY, BRENT D.
• • •
An Appraisal of Models Used in Life Cycle Cost Estimation for USAF Aircraft Systems.
AD-A064 333

BRADSHAW, J. L.
• • •
Low Cost, Low Power Dissipation Micro-Signal Processor for Acoustic Signal Processing.
AD-A080 808

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Cost Effectiveness of Typhoon Forecast Improvements.
AD- 781 324

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The Development of Alternative Food Cost Indexes.
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Uniform Ration Cost System - Summary Report.
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Army Life Cycle Cost Model: Programmer's Guide. Volume II.
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Cooperative Logistics Supply Support Arrangement Pricing Relationships Between Programmed and Nonprogrammed Requisitions.
AD-A075 587

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Development of Cost Estimating Relationships for Aircraft Jet Core-Engine Overhaul Costs.
AD-A047 667

*BRENTS, T. E.
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Integration of Hybrid Structure into Low-Cost Aircraft Design - Rationale and Methodology.
AD-A023 416

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A Performance-Contingent Reward System That Uses Economic Incentives: Preliminary Cost-Effectiveness Analysis.
AD-A050 830

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AD-A044 529

BRIDGES, J. H.
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Integration of Hybrid Structure into Low-Cost Aircraft Design - Rationale and Methodology.
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BRILL, EDWARD
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On the Existence of Relative Moral Hazard.
AD- 757 698

BRISTER, JAMES G.
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AD-A077 475

BRISTOL, MARJORIE A.
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Applications of Analog Sampled Data Signal Processing to Low-Cost Speech Bandwidth Compression.
AD-A058 225

BROGAN, T. R.
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Development of Design Criteria, Cost Estimates, and Schedules for an MHD High Performance Demonstration Experiment.
AD- 766 232

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AD-A044 046

BROWN, GERALD J.
• • •
Military Construction Engineering and Design Cost Forecasts.
AD-A035 262

BROWN, REX V.
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Decision Theory Research.
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• • •
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AD-A045 082

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BROWN, STEVEN D.
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AD-A050 224

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Pricing for U.S. Army Technical Assistance Field Teams (TAFT).
AD-A078 279

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Costs of the Next Due Base-Level Inspection during a Depot Visit.
AD-A028 299

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Development of Cost Estimating Relationships for FLEETSATCOM. Volume I.
AD- 775 628

BRYAN, JUDITH A.
• • •
Bupers MPN Expenditure Estimating.
AD-A037 391

•BRYANT, ALBERT
• • •
A National Health Program.
AD-A023 881

•BRYNJOLFSSON, ARI
• • •
Cost of Irradiating Bacon and the Associated Energy Savings.
AD-A069 968

•BUCHANAN, H. N.
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LCC/DTC Tasks Conducted for MX weapon System Program.
AD-A050 588

•BUCKELEW, W. F.
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Economic Escalation and the Military Program Manager.
AD-A026 557

•BUEDE, DENNIS M.
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Cost-Benefit Analysis Applied to the Program Objectives Memorandum (POM).
AD-A063 619
• • •
Applications of Decision Analysis to the U. S. Army Affordability Study.
AD-A064 442

BULCHA, BISRAT
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Multilevel Modularization of Systems to Minimize Life Cycle Cost.
AD-A061 636

BOLDHAUPT, L. F.
• • •
Hybrid Technology Cost Reduction and Reliability Improvement Study.
AD-A062 247

•BURDICK, L. J.
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Conventional AS Load List Study.
AD-A045 461

•BURK, DANNIE D.
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Cost Prediction Models for Bringing Selected Air Force Logistics Command Facilities into Compliance with the Occupational Safety and Health Administration Standards.
AD-A016 344

BURNS, CHARLES P.
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Study of Comparative Costs for Far-Field Antenna Patterns Determined by Near-Field Measurements and by Far-Field Measurements.
AD- 775 472

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AD-A030 141

BUTLER, ROBERT A.
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AD-A073 268
• • •
Manpower/Hardware Life Cycle Cost Analysis Study.
AD-A081 513

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Reliability Trade-Offs for Unit Production Cost.
AD-A065 643

BYRD, J. D.
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Methodology for Producing Low Cost/Disposable Mandrels.
AD-A081 990

BYRER, THOMAS G.
• • •
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AD- 783 416
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Cost-Driver Analysis for Computerized Production Process Planning.
AD-A074 054

BYRNE, ROBERT J.
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Uniform Ration Cost System - Summary Report.
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CALFAPIETRA, VINCENT G.
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Use of Computerized Support Modeling in Logistic Support Analysis.
AD- 783 487

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CAMPBELL, HARRY G.
• • •
Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A013 258
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Parametric Equations for Estimating Aircraft Airframe Costs.
AD-A022 086

•CAMPBELL, VINCENT N.
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An Attitudinal Study of the Home Market for Solar Devices.
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•CAPLES, BUDDY C.
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The Value of the Base Level Industrial Engineer.
AD-A074 394

CARIDAKIS, MINNIE M.

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AD-A073 003

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The A-10 and Design-to-Cost: How Well Did It Work.
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CARMICHAEL, TERENCE J.
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AD-A024 749

CARTER, SHIRLEY H.
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The Design to Unit Production Cost (DTUPC): Range of Applicability to Development Procurements.
AD-A011 186

CASTLE, RICHARD S.
• • •
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AD- 777 864

CATES, DAVID
• • •
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AD-A013 258
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Inhibitors to the Use of Life Cycle Costing: Results of a Survey of Military/Industrial Managers.
AD-A072 553

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AD-A045 447

CHAN, ALBERT W.
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A Round-Trip Location Problem on a Tree Graph.
AD-A028 666

CHANAUD, R. C.
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AD-A028 922
• • •
Construction-Site Noise Control Cost-Benefit Estimating Procedures.
AD-A051 737

CHANAUD, ROBERT C.
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AD-A050 813

CHAPMAN, CRAIG E.
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AD-A030 217

•CHARNES, A.
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AD-A068 993

CHASE, DAVID E.
• • •
An Evaluation of the GNP Deflator as a Basis for Adjusting the Allowable Price of Crude Oil.
AD-A036 146

•CHENEY, WILLIAM FITCH
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AD-A046 006

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AD-A060 346

CHIEN, JEN TER

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Cost of Living Adjustment for Military Personnel.
AD- 778 634

CHOVICHIEN, V.
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Methodology for Establisning Equipment Utilization Standards.
AD-A058 559

•CHRISTENSEN, MICHAEL W.
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AD-A061 403

CHURCHILL, ROBERT E.
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AD-A000 823

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Economic Analysis of the Rotary Kiln and Fluidized Bed P and E Incinerators.
AD-A062 298

•CLAPP, J. A.
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A Review of Software Cost Estimation Methods.
AD-A029 748

•CLARK, DONALD A.
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Workload Analysis of a Military Repair Depot.
AD-A020 363

•CLARK, GORDON M.
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Development of a Dynamic Simulation Filter.
AD-B001 641

CLARK, H. T.
• • •
Methodology for Producing Low Cost/Disposable Mandrels.
AD-A081 990

CLARK, MAC H.
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Criteria for Evaluating the Performance of Compilers.
AD-A002 322

•CLARK, ROLF H.
• • •
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AD-A019 190

•CLAY, LARRY E.
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Development of RMS Cost Model and Demonstration of Alternative OH-58 Maintenance Scenarios.
AD-A017 760

CLEAVELAND, W. B.
• • •
Limit Criteria for Low Cost Airframe Concepts.
AD- 777 572

CLEROUX, R.
• • •
Periodic Replacement with Minimal Repair at Failure and Adjustment Costs.
AD-A014 385

•CLICKENER, JOHN ROSS
• • •
Implementing Replacement Cost Accounting.
AD-A036 177

•CLIFTON, HERBERT CHARLES
• • •
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AD-A068 537

CLOUGH, WILLIAM S.
• • •
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AD-A044 157

COE, ROBERT K.
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Criteria for Evaluating the Performance of Compilers.
AD-A002 322

COHEN, I. K.
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AD-A026 299

COLETTI, R. J.
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AD-A073 507

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AD-A014 772
• • •
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AD-A043 034
• • •
Statistical Risk Properties of the Logistic Support Cost Commitment.
AD-A080 196

•COLON, WILLIAM M.
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AD- 783 487

COMINSKY, A.
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AD-B002 859

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COOK, RUSSELL A.
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COOPER, THOMAS J.
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AD-A030 763

COOPER, W. W.
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AD-A076 833

CORDELL, CURTIS C.
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AD-A029 179
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AD-A029 195
* * *
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AD-A070 037

COREY, JAMES M.
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AD-A081 759

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AD-A021 115
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Standard Electronic Module Radar Life Cycle Cost Comparison.
AD-A071 110

CORLEY, STEVEN
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Intelligence System Designer's Memory Evaluation Program.
AD- 771 793

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The Application and Utility of Independent Government Cost Estimates.
AD-A012 795

COTE, R. W.
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AD-A036 364
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Study of the Effects of Increased Costs on Corporate and Business Flying. Volume IV. Data Base.
AD-A036 366

COUCH, ROBERT F., JR
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AD- 782 182

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AD-A044 099

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CRAIG, WILLIAM A.
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AD-A072 670

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AD-A028 408

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AD- 766 624

CRUISE, D. R.
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AD- 768 731

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AD-A035 066

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DANIELS, J. M.
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AD- 913 440

DANIELS, PARMELY M.
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Naval Reserve Annual Operating Costs
AD-A029 115

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AD-A050 224

*DANTZIG, GEORGE B.
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AD-A060 819

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AD-A044 083

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AD-A029 274

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AD-A028 407

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AD-A042 771

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DAY, C. F.
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AD- 913 440
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Costs and Benefits of Requiring New Production of Older Aircraft Types to Meet Amended Noise Standards.
AD-A080 130

DEACON, RONALD
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AD-A016 111

DEANDRADE, ANTHONY B.
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AD-A013 521

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The Magnitude of Variability in Cost Estimates.
AD- 765 446

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DECARDY, JOHN R.
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DEDICH, J.
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AD-A046 249
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On the Benefit-to-Cost Ratio of Base-Level Stocking Decisions for Low Demand Items.
AD-A053 953

*DERMAN, C.
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AD-A044 897

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Optimal System Allocations with Penalty Costs.
AD-A017 238

DEVANEY, JOHN F.
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Methods for Estimating Effectiveness and Cost of Civil Defense Program Elements.
AD-A057 343

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An Exploratory Study of Software Cost Estimating at the Electronic Systems Division.
AD-A030 162

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Parametric Cost Estimating.
AD-A039 563

DEVER, JAMES R.
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Acquisition Costing in the Federal Government.
AD-A060 346

DEY, P. KONOSKE
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AD-A017 125

DEY, PATRICIA KONOSKE
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AD-A061 300

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AD- 771 957

DIXON, THOMAS E.
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AD- 782 182
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DOCKSTADER, STEVEN L.
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AD-A050 830

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AD- 781 132

DOLBEARE, R. T.
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AD-A061 227

*DOMAN, ALLAN M.
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Evaluation of F-16 Subsystem Options Through the Use of Mission Completion Success Probability and Designing to System Performance/Cost Models.
AD-A021 263

*DOMIN, JOSEPH S.
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AD-A038 477

DONAHUE, B. A.
* * *
Cost of Recycling Waste Material from Family Housing.
AD-A045 421

DONNELL, MICHAEL L.
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AD-A064 442

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AD-A047 282

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AD-A044 609

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AD- 783 416

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AD- 768 826

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AD- 787 183

DOYLE, KRISTY M.
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Phase II of Feasibility Study of Initial Aircraft Propulsion Subsystem Integration Cost Model.

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HANNAN, THOMAS L.
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Complexity as a Factor of Quality and Cost in Large Scale Software Development.
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An Analysis of the Inflationary Effects on Inventory Systems.
AD-A028 268

HARTLEY, JOSEPH H.
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Low-Cost, Crossed-Field Amplifier Meanderline Circuit Concepts.
AD-A061 147

HARTLEY, KEITH
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AD- 776 539

HART-SMITH, L. J.

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HEIDT, EDWARD A.

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HEYER, FERNANDO

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HITCHCOCK, CHARLES B.
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HITTLE, DOUGLAS C.
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HOFFMAYER, KARL
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Production Rate and Production Cost.
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HOLTRY, ANTHONY K.
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HOMANS, B. L.
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AD-A028 922

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AD-A038 190

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The Cost of Caring.
AD-A046 810

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The 'Should Cost' Concept.
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HOROWITZ, ISAAC
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Reduction of the Cost of Feedback in Systems with Large Parameter Uncertainties.
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HOTCAVEG, KENNETH J.
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HOWE, RUSSELL E.
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HOWELL, JACK D.
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*HUBEN, C. A.
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HUCK, D. F.
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AD-A047 198

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HUMPHREYS, THOMAS H.
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IMPERIAL, F. F.
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INOUYE, DON M
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Identification and Definition of the Management Cost Elements for Contractor Furnished Equipment and Government Furnished Equipment.
AD-A061 300

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AD-A056 102
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AD-A000 557
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AD-A000 558
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AD-A000 559
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AD-A000 560
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AD-A000 561
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Tables of Quaternary S-Curves Based on 82%-84% R and D Curves and 67%-99% Production Curves. Volume 6.
AD-A000 562
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Tables of Quaternary S-Curves Based on 88%-90% R and D Curves and 67%-99% Production Curves. Volume 8.
AD-A000 564
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Tables of Quaternary S-Curves Based on 97%-99% R and D Curves and 67%-99% Production Curves. Volume 11.
AD-A000 567
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Tables of Quaternary S-Curves Based on 85%-87% R and D Curves and 67%-99% Production Curves. Volume 7.
AD-A001 034
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Tables of Quaternary S-Curves Based on 91%-93% R and D Curves and 67%-99% Production Curves. Volume 9.
AD-A001 035
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JOINES, JACK L.
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JOYNER, JOHN
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KALAL, GERALD
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AD-A041 308
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AD-A040 209

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KASPER, M. W.
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KAY, BRUCE F.
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*KAZYAK, LEO
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AD-A073 067

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AD-A025 133

KELEHER, KATHLEEN
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AD-A016 104

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KELLS, RICHARD E.

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KINKLEY, MICHAEL L.
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KIRCHMER, JAMES E.
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KLEINDORFER, PAUL R.
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KLEM, THOMAS G.
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KLEVER, RUTH F.
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AD-A061 148

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AD-A076 630

KLOPCIC, J. TERRENCE
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KLOSTER, S. E.
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KLOTZ, BENJAMIN
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Volume II. Appendix II.
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KNIGHT, WESLEY

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KNOBLOCH, EARLE W.

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KNOBLOCH, EARLE WILLIAM

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AD-A059 184

KOEHLER, ERNEST A.

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AD-A058 250

KOENIG, MICHAEL J.

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AD-A073 018

KOETSCH, J. F.

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KOKAWA, A.

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AD-A041 495

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AD-A041 496

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Advanced Composite Cost Estimating Manual. Volume II.
AD-A041 497

KOLPIN, E. DAN

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AD-A073 067

KONTROVICH, FRANK

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AD- 769 905

KORNISH, S. F.

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AD- 781 132

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KOWALSKI, B. R.

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AD-A056 936

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AD-A068 268

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AD-A080 945

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AD-A059 290

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LAIDLAW, CHARLES D.
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LANDIS, WARREN R.
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AD-A047 181

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AD- 787 395
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AD-A013 258
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AD-A011 185

*LAWSON, DIANN
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AD-A059 183

LEACH, JOSEPH E., JR
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AD- 771 957

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LEE, STEPHEN M.
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LENZ, JOHN O.
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LIDRAL, ROBERT
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LIEBERMAN, G. J.
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Optimal Selling When the Price Distribution is Unknown.
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Optimal System Allocations with Penalty Costs.
AD-A017 238

LIEBERMANN, R. R.
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AD- 781 132

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Computer Network Usage-- Cost/Benefit Analysis - I.
AD- 771 439
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Generalized Cost/Performance Trade-Off Analysis.
AD- 781 717
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Guidelines for the Acquisition of Software Packages.
AD- 782 477
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LOWE, T. J.
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LU, JOHN Y.
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Costs of the Next Due Base-Level Inspection during a Depot Visit.
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MAHR, THOMAS A.
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MANNING, H. E.
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MCCARTNEY, CHARLES

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MCGRATH, JOHN M.
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MERRITT, RON
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METSKER, B. L.
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METZLER, ELLIOT
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MEYER, GEORGE E.
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MILBORROW, GRAHAM C.
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MILER, EDWARD H.
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MILES, ROSS E.
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MINNER, DALE E.
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MOAD, JOSEPH E.
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MOESCHLIN, O.
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MONTGOMERY, HAROLD L.
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Low-Cost Terminal Alternative for Learning Center Managers.
AD-A082 343

MOODY, DALE L.
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Implementing Usage-Sensitive Charges for AUTODIN, Volume II. AUTODIN Technical Appendices.
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MOORE, DAVID H.
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MURROW, D. J.
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NEWHART, WILLIAM H., JR
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AD-A011 186

NICHOLAS, J.
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NOLAN, J. J.
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NORDHAUSER, FRED
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AD- 785 141
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NORTHEY, FREDERICK J.
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NORVILLE, DONALD F.
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NORWOOD, D. L.
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O'CONNOR, MICHAEL F.
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OLTYAN, ANDREW W.
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*ONAT, E.
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OSTERHUS, DAMOND L.
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OSWALD, BILLIE E., JR
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AD- 797 183

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PACE, JOHN M.
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PALATT, PAUL E.
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AD-A086 518

PAPETTI, CLARENCE J.
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PETER, J.
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PETERS, GEOFFREY W.
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PFLASTERER, DAVID C.

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PINEDO, MICHAEL

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PLOURDE, RENE

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PLUMMER, FRED

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POLAND, JAMES R.

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POSTAK, JOHN N.

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POWELL, JOHN H., JR

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PROST, K. J.
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PULAT, P. S.
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PURCELL, AGNES
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AD-A022 195

RAANAN, JOSEPH
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AD-A047 109
* * *
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RAHM, MICHAEL
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RANKIN, WILLIAM C.
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REARDON, FRANCIS P.
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RECKTENWALT, THOMAS J.
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REDA, MOSTAFA R.
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REINGOLD, A.
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RICE, STEPHEN CHARLES
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RICHARDSON, CHARLES L.
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RICHTER, RONALD P.

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RIEDESEL, PAUL
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RING, WILLIAM F. H.
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ROACH, CHRIS
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ROBELLOTO, R. P.
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ROLL, CHARLES ROBERT, JR
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RORKE, M. J.
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AD-A032 202

ROSE, HOWARD C., JR
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ROSENDAHL, EUGENE
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ROSENDAHL, R.
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ROSS, S.
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ROSS, SUE G.
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RUSSELL, WILLIAM E.
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SALZER, ROBERT S.
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AD- 785 141
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SANDBORN, J. W.
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Alternate Subsonic Low-Cost Engine.
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SANDERS, RICHARD B., JR
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AD- 771 793

SCARR, R. F.
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AD- 769 905

SCHAEFER, J. N.
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LCC/DTC Tasks Conducted for MX weapon System Program.
AD-A050 588
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LCC/DTC Tasks Conducted for GPS army User Equipment.
AD-A072 310

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AD-A016 262

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Reliability Acquisition Cost Study (II).
AD-A020 457

SCHANCHE, G. W.
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AD-A045 421

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AD-A020 289
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Competitive Prices, Dynamic Programming under Uncertainty, a Nonstationary Case.

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SCHEUER, ERNEST M.
• • •
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AD-A001 015
• • •
Application of Nonparametric Methods in the Statistical and Economic Analysis of Warranties.
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SCHINNAR, A. P.
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SCHMIDT, H. J.
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AD- 766 232

SCHMITZ, EDWARD J.
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AD-A033 291

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SCHOMER, PAUL D.
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AD-A061 146

SCHRADER, DANIEL W.
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AD-A030 348

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SCHULZE, BILLY R.
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AD-A027 288

SCHUTTINGA, JAMES A.
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SCOLA, ROBERT
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SELLERS, G.
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SHAW, LEONARD
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AD-A007 121

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*SHERMAN, ALLAN

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AD-A071 473

SHIPP, ROBERT F.

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AD-A066 138

SHOWERS, DAVID P.

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Low-Cost Terminal Alternative for Learning Center Managers.
AD-A082 343

SHUMATE, E. CHANDLER

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AD-A050 830

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AD-A074 189

SICA, GERALDINE

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AD-A047 198

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Documentation of Analytical Services Provided in Support of Navy Enlisted Personnel Projections for POM-80.
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SIELKEN, ROBERT L., JR

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SMILLIE, ROBERT J.

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AD-A056 191

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AD-A037 079

SMITH, BRADFORD M.

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SMITH, E. D.
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SMITH, G. K.
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AD-A017 125

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AD-A042 933

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AD-A042 314

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AD-/006 505

SMITH, T. ARTHUR
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AD-A072 348
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Methodology to Quantify the Potential Net Economic Consequences of Increased NATO Commonality. Standardization and Specialization. Volume III.
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SMITH, WILLIAM E.
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SNAVELY, WILLIAM P.
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AD-A043 360

SNYDER, DAVID P.
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AD-A047 167

SOLBERG, ERNEST ARNOLD
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SPEZIA, EMIL
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SPRAY, GORDON W.
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STAMAS, G. D.
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STEIN, W. M.
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STERNBERG-POWIDZKI, M.
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AD-A006 783

STONE, BLAINE T.
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AD-A006 505

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AD-A059 306

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STRING, JOSEPH
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AD-A063 382

STUDHOLME, E. D.
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AD-A080 130

*SUITER, R. L.
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AD-A065 513

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SWEET, D. E.
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AD-A029 179
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AD-A029 195
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TANEJA, NAWAL K.
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TARTAGLIA, FREDERICK E.
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TATE, THOMPSON
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TAYLOR, ELAINE N.

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Some Considerations in Analyzing Training Costs and Job Performance.
AD-A054 954

TEESDALE, THOMAS JOSEPH

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AD-A047 126

TERRY, ROBERT W.

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AD-A077 331

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AD- 778 836

THOMERSON, JIMMIE

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THOMPSON, BRUCE

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THOMPSON, GERALD L.

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AD-A082 423

*THOMPSON, GROVER FRANK

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TIMSON, F.

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TIMSON, F. S.

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AD-A078 155

TOLLE, F. F.

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AD-A074 454

TONJES, EARL A.

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AD-A030 296

*TOOMEPUU, JURI

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AD-A036 159

TORNABE, A. J.

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AD-A059 169

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AD-A039 813

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AD-A059 164
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The Avionics Laboratory Predictive Operations and Support (ALPOS) Cost Model Volume III.
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AD-A023 406

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TURNEY, DANIEL P.
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AD-A061 304

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AD-A009 189

UNDERWOOD, ELTON M.
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UNGER, ROBERT F.
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UTTER, HARRY
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VANCE, S. L.
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VAN WIJK, ALFONS
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VAUGHN, G.
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AD-B006 333

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AD- 783 532

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AD-A041 467

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AD-A026 559

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VOLPE, RICHARD L.
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WAGGONER, JOHN J.
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AD- 782 569
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AD-A022 788

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AD-A030 788

*WAKS, NORMAN

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AD-A062 247

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AD- 916 001

WALKER, GARY A.

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AD-A044 046

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AD-A064 223

*WALL, RICHARD L

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AD-A017 222

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AD-A044 034

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WALLER, W. E.

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AD- 781 132

WALSH, DAVID

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AD- 767 698

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WALTON, GEORGE N.

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*WARNER, JOHN T.

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WATERMAN, QUINTIN L.

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*WEBB, G. E.

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WEBSTER, CRAIG A.

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WEINSTEIN, ROBERT M.
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WELP, DAVID W.
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WETZLER, ELLIOT
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WINN, JAMES S.
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WINTERS, HENRY, JR
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WRIGHT, RICHARD F.
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