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LIST OF THESES  
SUBMITTED BY OFFICER STUDENTS  
IN PARTIAL FULFILLMENT OF  
THE REQUIREMENT FOR DEGREES  
FOR 1961  
RESEARCH PAPER NO. 30

## Foreword

This is a list of theses submitted by officer students in partial fulfillment of the requirement for degrees, and held by the Library of the U. S. Naval Postgraduate School.

Theses are arranged alphabetically by the author's name, and include the title of the thesis, the school at which the research was accomplished, and the date when the thesis was written or was accepted for a degree.

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Abbott, William Benjamin see Patton, Walter Buel

Abernathy, Thomas R. see Watson, Paul B.

A36 Aldrich, Robert G. A helium magnetometer that utilizes light-modulation,  
Thesis (MS) U. S. Naval Postgraduate School, 1961.

A372 Alforte, William A. Proton capture resonances in sulfur.  
Tetteibach, Donald C. Thesis (MS) U. S. Naval Postgraduate School, 1961.

A435 Ammer, Henry G. Backswitch characteristics of indium films.  
Wolff, William F. Thesis (MS) U. S. Naval Postgraduate School, 1961.

A47 Anderson, Norris O. Steady state response of a second order  
Lockett, Thomas W. servomechanism with backlash and resilience  
in the gears between motor and load.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.

A487 Anderson, Walter I. Experimental comparison of methods of  
generating hot plasmas  
Thesis (MS) Rensselaer Polytechnic Institute, 1961.

A52 Andrews, Charles E. Effects on maximum overshoot and settling  
Kelley, Roy A. time when backlash is present in a second  
order servomechanism.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.

B202 Ballow, L. D. Elastic instability of relatively thick  
Barry, T. M. circular cylindrical shells subjected to  
hydrostatic pressure.  
Thesis (MS) Webb Institute of Naval Architecture, 1961.

VF3888 Bandish, B. J. Establishing valid criteria for successful  
performance at the Navy Management School.  
Research Paper (MS in Mgmt.) U. S. Naval  
Postgraduate School, 1961.

Barry, T. M. see Ballow, L. D.

VF3890 Bassing, B. E. An analysis of the aviation allowance list  
problem.  
Research Paper (MS in Mgmt.) U. S. Naval  
Postgraduate School, 1961.

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|--------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VF3865 | Bauerlein, L. P.    | Command leadership affect through command management.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                                 |
| VF3864 | Bayer, D. A.        | Formal education and the Naval Line Officer.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                                          |
| B333   | Becken, Bradford A. | The directional distribution of ambient noise in the ocean.<br>Thesis (PhD) University of California, Los Angeles, 1961.                                                                     |
| B3619  | Bell, Lloyd F.      | A mathematical theory of guarantee policies.<br>Thesis (PhD) Stanford University, 1961.                                                                                                      |
| VF4130 | Bell, R. H.         | The budget process and the Marine Corps.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                                              |
| B365   | Bellor, Fred J.     | Pointwise bounds in parabolic and elliptic partial differential equations.<br>Thesis (PhD) University of Maryland, 1961.                                                                     |
| B5452  | Bishop, Michael E.  | Use of statistical theory in preliminary design of shipboard electrical power distribution systems.<br>Thesis (MS) Massachusetts Institute of Technology, 1961.                              |
| VF3863 | Black, C. H.        | A study of preparing a ship for a Naval shipyard overhaul.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                            |
| B5459  | Blaes, Carl E.      | A study of geostrophic angular momentum transport by waves with periods 1 to 30 days at the 500-mb surface and a mid-latitude station.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961. |
| VF3862 | Blair, I. W.        | Leadership factors in the Naval situation.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                                            |

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| B715     | Borthwick, Robert B.                         | Some dynamic airframe stability considerations in the control problem.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                               |
| VF3861   | Bowman, H. L.                                | Operations research in the public works area.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                       |
| B797     | Bradshaw, Erice L.                           | Development of an automatic monitoring program for the Control Data Corporation 1604 data processor.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961. |
| B7986    | Brandel, William J.<br>Wilkey, Robert L.     | On propulsion, guidance and control in effecting satellite rendezvous.<br>Thesis (MS) Massachusetts Institute of Technology, 1961.                         |
| B8064    | Bridge, James A.                             | Fatigue strength reduction caused by two discontinuities at a point.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                 |
| E80924   | Bronzino, Joseph D.                          | Compensation of control systems utilizing acceleration feedback.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                     |
| E80992   | Brown, Charles O.                            | The installation and performance evaluation of a small supersonic wind tunnel system.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                |
|          | Buckley, C. C., Jr. <u>see</u> Miller, J. D. |                                                                                                                                                            |
| C-60,201 | Eyron, John B.                               | Submarine echo formation in explosive echo ranging.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                  |
| VF3868   | Caine, A. D.                                 | An investigation of the Naval aeronautical malfunction reporting program.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.           |

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| C1943  | Cane, John W.                                           | Superconducting properties of cylindrical films.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                       |
| C205   | Carloti, Bruno M.<br>Elms, David G.<br>Peace, Robert C. | Dolphin design.<br>Thesis (MS) Princeton University, 1961.                                                                                                                   |
| C262   | Carothers, Philip F.                                    | An experimental investigation of the pressure distribution of air in radial flow in thin films between parallel plates<br>Thesis (MS) U. S. Naval Postgraduate School, 1961. |
| VF3869 | Child, A. L., III                                       | Sub-Saharan Africa--New Frontier.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                                     |
| C444   | Chin, Ho-Chih<br>Kuan, Chuang-Tao<br>Pak, Ha Song       | A numerical method of 1000-mb prognosis through prediction of thickness field.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                         |
|        | Christmas, Walter B. <u>see</u> Sesler, Ralph M         |                                                                                                                                                                              |
| VF3860 | Christoph, K. L., Jr.                                   | Proper utilization of the optar as a ship-board financial management device.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                          |
| C479   | Citerley, Richard L.                                    | An investigation to simulate the linear viscoelastic behavior of an elastomer.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                         |
| C4825  | Clark, Marlon J.                                        | The influence of winds and relative humidity on the seasonal thermocline at ocean station "P".<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                         |
| VF3859 | Clay, T. C.                                             | The economic war.<br>Research Paper (MS in Mgmt) U. S. Naval Postgraduate School, 1961.                                                                                      |
|        | Coburn, Joseph L. <u>see</u> Hill, Ralph C.             |                                                                                                                                                                              |
| C5325  | Cole, Thomas T.                                         | Optical constants in the extreme ultraviolet.<br>Thesis (MS) University of Colorado, 1961.                                                                                   |

- C57 Collins, Ferdinand I. A mathematical model of carrier aircraft operations in anti-air warfare.  
Thesis (MS) U. S. Naval Postgraduate School, 1961
- Collins, Harry D. see Putnam, Lawrence H.
- C658 Comstock, Craig Some consequences of a covariant differential coordinate system.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- C744 Conway, Burton J. Gamma-gamma angular correlation in the decay of cobalt-60  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- C7478 Cooke, William B. H. Predicted behaviour of the AGN 201 reactor at high power levels.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- C7541 Copeland, Edward C.  
Reasonover, Roger L., Jr. Investigation of thermal neutron flux perturbation in a polyethylene medium by use of gold foil detectors  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- VF3889 Coulter, P. H.  
Grace, J. A.  
Gallman, J. R., Jr.  
Danielsen, A. M. A study of the problem of retention of junior officers of the U. S. Navy, the U. S. Marine Corps and the U. S. Coast Guard.  
Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- VF3858 Crawford, W. H. Airlift for peace and war The military air transport service.  
Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- C85 Crawford, William T. The Von Neuman Morgenstern utility function.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- C88 Cross, William F. A study of the time variation of perturbation kinetic energy at the 500-millibar level.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- Cummings, Arthur H. see Yerbury, Robert H.

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| VF3870 | Cywin, L.                                  | An investigation of the management functions of a shipboard commanding officer, Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961. |
| VF3852 | Daniel, J. C.                              | Management and operation of military marine terminals. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School.                                |
|        | Danielson, A. M. <u>see</u> Coulter, P. H. |                                                                                                                                                     |
| D171   | Davis, Michael Chase                       | Analysis and control of ship motion in a random seaway. Thesis (MS) Massachusetts Institute of Technology, 1961.                                    |
| D172   | Davis, Michael Chase                       | Optimum systems in multi-dimensional random processes. Thesis (D.Sc.) Massachusetts Institute of Technology, 1961.                                  |
| VF3871 | Day, F. W.                                 | The human factor in controlled maintenance. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                     |
| VF3853 | Dente, E.                                  | A study of bureaucracy. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                         |
| VF3854 | DiBerto, E. T.                             | Military command - management control, Naval organization fantasy. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.              |
| VF3872 | Divoll, R. L.                              | Organization for engineering in the Federal Government. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                         |
| D646   | Donohue, David P<br>Federico, Charles D.   | An investigation of the effects of transportation lag on linear feedback control systems. Thesis (MS) U. S. Naval Postgraduate School, 1961.        |
| D655   | Dorf, Richard C.                           | Analysis and design of control systems by means of time domain matrices. Thesis (PhD) U. S. Naval Postgraduate School, 1961.                        |

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| D703   | Downey, Richard S.                                         | An investigation of semi-diurnal fluctuations of winds at an altitude of ten kilometers. Research Study, U. S. Naval Postgraduate School, 1961.                                  |
| D745   | Drew, Russell C.                                           | Electron paramagnetic resonance studies of $\gamma$ -irradiated polypeptides. Thesis (PhD) Duke University, 1961.                                                                |
| D75    | Drews, Sheldon<br>Goldner, Robert R.<br>Treiber, Arthur E. | An investigation of an expanding elliptical earth escape trajectory for a low thrust space vehicle. Thesis (MS) Massachusetts Institute of Technology, 1961.                     |
|        | Elms, David G. <u>see</u> Carloti, Bruno M.                |                                                                                                                                                                                  |
| E44    | Engel, Gordon R.<br>Rice, Daniel W.                        | Influence of lateral-directional responses on flying qualities. Thesis (MS) Princeton University, 1961.                                                                          |
| E46    | Englert, Robert J.<br>Thune, John R.                       | Wave forces and moments on a submerged elongated body of revolution. Thesis (MS) Massachusetts Institute of Technology, 1961.                                                    |
| E568   | Erickson, Philip W.                                        | Electrical resistivity and Hall effect of cuprous sulfide and bismuth telluride in the temperature range from 290°K to 670°K. Thesis (MS) U. S. Naval Postgraduate School, 1961. |
| F225   | Farber, Karl H.                                            | Installation and tests of General Electric Model 5GDY34C1 axial flow fan-dynamometer set. Thesis (MS) U. S. Naval Postgraduate School, 1961.                                     |
| F2294  | Farrell, John R.                                           | Engineering design of logical circuits. Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                                       |
|        | Federico, Charles D. <u>see</u> Donohue, David P.          |                                                                                                                                                                                  |
| VF3873 | Fernald, J. A.                                             | The Naval District concept. Research Paper (MS in Mgmt) U. S. Naval Postgraduate School, 1961.                                                                                   |
| F43    | Filkins, William C.                                        | The inoculation of hypoeutectic gray cast iron. Thesis (MS) Case Institute of Technology, 1961.                                                                                  |

- VF3855 Forquer, C. J. Civil Engineer Corps officer education. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- F786 Frawley, Mildred J. Investigation of stream functions obtained through second-order geostrophic approximations. Thesis (MS) U. S. Naval Postgraduate School, 1961.
- Gallman, J. R., Jr. see Coulter, P. H.
- G186 Gardner, Howard W. Measurement of transference numbers of the bisulfate ion in aqueous sulfuric acid. Thesis (MS) U. S. Naval Postgraduate School, 1961.
- G256 Geary, Jack E. The effect of wind upon the mixed-layer depth. Thesis (MS) U. S. Naval Postgraduate School, 1961.
- G265 Georgen, William M. A method for selecting optimum naval officer quotas for individual postgraduate curricula. Thesis (MS) U. S. Naval Postgraduate School, 1961.
- VF3857 Glauser, C. J. The Navy planning and budgeting system as related to the operating forces. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- Goldner, Robert R. see Drews, Sheldon
- G62 Gowing, Richard M. An investigation of the thermal neutron cross-section for the reaction  $N^{14}(n,p)C^{14}$  using a nuclear emulsion technique. Thesis (MS) Pennsylvania State University, 1961.
- Grace, J. A. see Coulter, P. H.
- VF3856 Grahl, R. B. The District Public Works Office, a mission and management problem. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- VF3874 Guion, J. E. Management theory for the Naval vessel. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.

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|--------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| H105   | Habermehl, Robert N.<br>Hughes, Douglas A. | Moving striations and anode effects in an argon glow discharge.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                      |
|        | Hall, J. F. <u>see</u> Williams, J. L.     |                                                                                                                                            |
| H1635  | Hamilton, Harry D.                         | Minimum-time ship routing by calculus of variations methods.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                         |
| H18    | Han, Kuang-Wei                             | Phase space methods for the analysis and design of discontinuous systems.<br>Thesis (PhD) U. S. Naval Postgraduate School, 1961.           |
| H2912  | Harris, Leonard H.                         | Energy of the most loosely bound electron for ions of copper, silver, and gold.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.      |
| VF3851 | Heenan, R. D.                              | An analysis of national transportation administration.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.              |
| VF3850 | Helms, R. E., Jr.                          | Population problems.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                |
| H444   | Henn, Howard R.                            | Optimizing the decision to track in an automatic radar processor.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                    |
| VF3849 | Henson, O. A.                              | A comparative analytical study of management education in the Navy.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961. |
| H533   | Hill, Ralph C.<br>Coburn, Joseph L., Jr.   | A design study for a polar icebreaker.<br>Thesis (MS) Massachusetts Institute of Technology, 1961.                                         |
| H678   | Hoge, Kenneth G.                           | Creep behavior of a beryllium-copper alloy under cyclic temperature conditions.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.      |

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| H88      | Hull, Arthur N.                               | A method of forecasting the formation of 500-millibar blocks using statistical parameters.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                             |
| J12      | Jablonski, Felix J.<br>Rixey, Charles W.      | Military essentiality in inventory management.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                         |
| J255     | James, Joe M.                                 | Moving target effects upon matched filter correlators.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                 |
| J257     | Jameson, Henry C.                             | Zeeman Modulated Infrared communications system using helium resonance radiation.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                      |
| J37      | Jayne, Gordon H.<br>Wilkinson, Joseph B., Jr. | A digital computer study of the first-stage trajectories of high initial acceleration rockets.<br>Thesis (MS) Massachusetts Institute of Technology, 1961.                   |
| KL42     | Kang, In Ku                                   | Analysis of magnetic amplifier with capacitive loading.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                |
| K22      | Keely, Leroy B.                               | A preliminary design and longitudinal dynamics study of a VTOL Aircraft to operate efficiently in low altitude high speed flight.<br>Thesis (MS) Princeton University, 1961. |
| C-59,567 | Keimig, Allen D., Jr.<br>Hofmockel, John L.   | Frequency analysis of underwater explosions in a gas-water resonator.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                  |
|          | Kelley, Roy A. <u>see</u> Andrews, Charles E. |                                                                                                                                                                              |
| K44      | King, John A.                                 | A study of the synthesis of 2-trifluoromethyl pyrimidines.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                             |

- K505 Kirk, Donald E. First-derivative feedback compensation of control systems.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- Koonce, S. J. see Coulter, P. H.
- K868 Kruck, Frederick H. A method for the determination of optimal organization size.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- Kuan, Chuang-Tao see Chin, Ho-Chih
- K93 Kurzenhauser, Alfred Portal frame under impact loading,  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- L256 Lancaster, Robert W. Experimental investigation of the ignition process of solid propellants in a practical motor configuration.  
Thesis (MS) Princeton University, 1961.
- L47 Lehr, William E.  
Parker, Edwin L. A method for the design of ship propulsion shaft systems.  
Thesis (MS) Massachusetts Institute of Technology, 1961.
- VF3875 Lemon, T. M. Performance measurement of shipboard activity.  
Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- L52 Lenox, Glen W.  
Lindell, Clifford A. A flight test determination of the static longitudinal stability of the Cessna 310d airplane.  
Thesis (MS) Princeton University, 1961.
- L57 Levin, Roger L. The role of a displacement reaction in the kinetics of oxidation of alloys.  
Thesis (MS) Yale University, 1961.
- Lindell, Clifford A. see Lenox, Glen W.
- L644 Linder, Isham W. Correlation processes in antenna arrays.  
Thesis (PhD) University of California, Berkeley, 1961.
- VF3848 Lindsey, B. R. Fiscal policy,  
Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.

- L715      Liu, Kuang-Ming      Pressure drop and heat transfer in a vertical internally heated annulus.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- Luckett, Thomas W. see Anderson, Norris O.
- M1643      McCalla, Thomas R.      Application of the adjoint system of differential equations in the solution of the bang-bang control problem.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- M1645      McCamey, Robert E.      Characteristics of some active networks.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- M1882      McGarrah, William E.      A study of the effect of fluid contents and insulation on the vibratory behavior of pipe.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- M2295      MacKinnon, Malcolm  
Taylor, James M.      An analytic study of vibration transmission in typical shipboard installations.  
Thesis (MS) Massachusetts Institute of Technology, 1961.
- VF3840      McMillan, M. A.      The people to people program (National Security through understanding). A plan for military and dependent women in Japan, Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- M3574      Martin, Frederick V.  
John, Walter, Jr.      Measurement of the polarization of photo-neutrons from deuterium.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.
- VF3876      Martinez, J. G.      Simulation of an aids to navigation maintenance system.  
Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- M35957      Masalin, Charles E.  
Ogden, Edward G.      Investigation of dry friction phenomena in rotary sliding vane machinery.  
Thesis (MS) Massachusetts Institute of Technology, 1961.
- M366      Masterson, Kleber S.      The influence of insulators on the particle density distributions with and without magnetic fields.  
Thesis (MS) U. S. Naval Postgraduate School, 1961.

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| M375   | Mathews, Donald W.                             | Thermal buckling of a thin ring heated on the inner periphery.<br>Thesis (Aeron Engr) Stanford University, 1961.                                                                       |
| VF3846 | May, R. E.                                     | Government support of the American Merchant Marine for National Defense.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                        |
| VF3877 | Mayer, E. J.                                   | Automatic data processing experience and implications for Coast Guard management.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                               |
| M426   | Meeks, Robert B., Jr.<br>Wells, Eugene R., Jr. | Feasibility of using a ternary mode for pulse torquing a pendulous accelerometer.<br>Thesis (MS) Massachusetts Institute of Technology, 1961.                                          |
| M57    | Meyer, Wayne E.<br>Noble, Thomas I.            | An analysis of the precepts available for synthesizing feedback control systems when output characteristics are specified.<br>Thesis (MS) Massachusetts Institute of Technology, 1961. |
| VF3866 | Miller, J. D.<br>Buckley, C. C., Jr.           | Single manager system.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                                                          |
| M675   | Monk, Eugene E.<br>Scott, Walter G., Jr.       | Magneto-resistance of selected transition metals.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                                |
| VF3847 | Morin, R. J.                                   | An analysis of the U. S. Navy Officer evaluation system.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                        |
| VF3845 | Mulloy, P. J.                                  | Freedom Nation Group.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                                                           |
| M892   | Mullens, Frank A.                              | Use of an optical method to orient benzene crystals.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                             |
| M965   | Murphy, James F.                               | Solid state neutron detectors.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                                                   |

- Noble, Thomas I. see Meyer, Wayne E.
- Ogden, Edward G. see Masalin, Charles E.
- VF3837 Orr, R. J. An analysis of military supply systems.  
Research Paper (MS in Mgmt.) U. S. Naval  
Postgraduate School, 1961.
- P12 Pak, Chol Hui Forced vibrations of a mass on a nonlinear  
spring.  
Thesis (MS) U. S. Naval Postgraduate School,  
1961.
- Pak, Ha Song see Chin, Ho-Chih
- P147 Paolucci, Dominic A. The effects of higher order viscosity terms  
on fluid flow.  
Thesis (PhD) Indiana University, 1961.
- Parker, Edwin L. see Lehr, William E.
- P271 Patton, Walter B. Rapid approximation of servomechanism tran-  
sient response.  
Abbott, William B. Thesis (MS) Massachusetts Institute of Tech-  
nology, 1961.
- Peace, Robert C. see Carloti, Bruno M.
- P327 Peebles, Edward M. The influence of mechanical vibration on free  
convective heat transfer from horizontal  
cylinders.  
Thesis (MS) Massachusetts Institute of Tech-  
nology, 1961.
- P386 Petersen, Edwin J. An investigation of the early wake behind sub-  
merged flat plates as influenced by trailing  
edge configuration.  
Sylvester, Gerald D. Thesis (MS) Massachusetts Institute of Tech-  
nology, 1961.
- VF3838 Porter, D. C. Ethics - - an essential element of leadership.  
Research Paper (MS in Mgmt.) U. S. Naval  
Postgraduate School, 1961.
- VF3839 Potolicchio, R. A. Financial management: "The means" or "The  
ends".  
Research Paper (MS in Mgmt.) U. S. Naval  
Postgraduate School, 1961.

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|--------|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| VF3823 | Prehn, J. L., Jr.                        | A data communication network for the Navy exchange program.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.               |
| VF3841 | Primm, J. R.                             | A study of Civil Service and the military relationship in the Navy.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.       |
| VF3878 | Pstrak, T. W.                            | The Military Sea Transportation Service provides service to the services.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961. |
| VF3842 | Purtell, J. M.                           | ... to support and defend the Constitution,<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                               |
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|        | Reasonover, Roger L.                     | <u>see</u> Copeland, Edward C.                                                                                                                   |
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| VF3879 | Rendelson, P. L.                         | Automation ... A partial answer to our budget problems.<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                   |

- VF3828     Reno, J. N.     Obtaining facilities for the U. S. Navy through planning and programming. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- Rice, Daniel W. see Engel, Gordon R.
- R3754     Rice, James O.     A theoretical investigation of particle motion in an oscillating gas. Thesis (Aeron. Engr.) California Institute of Technology, 1961.
- Rixey, Charles W. see Jablonski, Felix J.
- R597     Roberts, Liona R.     Investigation of variations in overwater medium frequency field strength. Thesis (MS) U. S. Naval Postgraduate School, 1961.
- VF3829     Ruebsamen, D. D.     The economic impact of the budget. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- VF3830     Saksa, F. A.     The communist threat in the underdeveloped countries of Latin America. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
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Spar, Edwin F.     Investigation of a nonlinear lead compensating network for use with second order d-c servomechanisms. Thesis (MS) U. S. Naval Postgraduate School, 1961.
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- VF4131     Schroeder, W. A.     A proposal to establish an NROTC program in the junior college -- its meaning and merit. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- VF3880     Schwab, A. J.     Retention of medical officers. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.
- Scott, Walter G. see Monk, Eugene E.
- VF3831     Sears, K. P.     The potential of ADPS in the Navy. Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.

|          |                                              |                                                                                                                                                                                                 |
|----------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S4185    | Sesler, Ralph M.<br>Christmas, Walter B.     | The selection, instrumentation and calibration of a low range pressure transducer for use in Webb Institute Towing Tank experiments.<br>Thesis (MS) Webb Institute of Naval Architecture, 1961. |
| S4327    | Shafer, Willard G.                           | The evaluation of steam and high temperature water heating system alternatives for a naval air station.<br>Thesis (MME) Rensselaer Polytechnic Institute, 1961.                                 |
| S484     | Short, Edward A.                             | Visual detection of aircraft in mid-air collision situations.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.                                                                             |
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| VF3882   | Smiley, C. B.                                | An inquiry concerning a "Fourth service of supply."<br>Research Paper (MS in Mgmt.) U. S. Naval Postgraduate School, 1961.                                                                      |
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|          | Spar, Edwin F. <u>see</u> Sanders, Ernest D. |                                                                                                                                                                                                 |
| C-60,414 | Stembel, David M.<br>Taylor, Thomas H.       | Submarine nuclear propulsion, weight optimization and system comparison.<br>Thesis (MS) Massachusetts Institute of Technology, 1961.                                                            |

|        |                       |                                                                                                                                                                                       |
|--------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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|        | Taylor, James M.      | <u>see</u> MacKinnon, Malcolm                                                                                                                                                         |
|        | Terry, D. G. W.       | <u>see</u> Sims, G. L.                                                                                                                                                                |
|        | Tettelbach, Donald C. | <u>see</u> Alfonte, William A.                                                                                                                                                        |

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|----------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| Thune, John R. <u>see</u> Englert, Robert J. |                       |                                                                                                                                                                                                                          |
| Treiber, Arthur E. <u>see</u> Drews, Sheldon |                       |                                                                                                                                                                                                                          |
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|----------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| W24      | Watson, Paul B., Jr.<br>Abernathy, Thomas R.     | War gaming with a digital computer - a discussion and an example,<br>Thesis (MS) U. S. Naval Postgraduate School,<br>1961.                                                   |
|          | Wells, Eugene R. <u>see</u> Meeks, Robert B.     |                                                                                                                                                                              |
| W53      | Whipple, Caryll R.                               | The dynamic response of shallow-buried<br>arches subjected to blast loading.<br>Thesis (PhD) Civil Engineering, University<br>of Illinois, 1961.                             |
| C-60,658 | White, W. E.                                     | New technology and tomorrow's surface Navy,<br>Research Paper (MS in Mgmt.) U. S. Naval<br>Postgraduate School, 1961.                                                        |
| W5853    | Wildberger, A. Martin                            | Information retrieval.<br>Thesis (MS) U. S. Naval Postgraduate School,<br>1961.                                                                                              |
|          | Wildey, Robert L. <u>see</u> Brandel, William J. |                                                                                                                                                                              |
|          | Wilkinson, Joseph B. <u>see</u> Jayne, Gordon H. |                                                                                                                                                                              |
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| W6254    | Williamson, John P.                              | An adaptive depth control system for high<br>speed submarines,<br>Thesis (MS) Massachusetts Institute of<br>Technology, 1961.                                                |
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|          | Wolff, William F. <u>see</u> Ammer, Henry G.     |                                                                                                                                                                              |

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|--------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
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| Z34    | Zettel, Ralph A.                               | Meteorological factors affecting mixed-layer depth fluctuation.<br>Thesis (MS) U. S. Naval Postgraduate School, 1961.      |

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