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ENGINEERING DESIGN HANDBOOK

MILITARY PYROTECHNICS SERIES

PART FIVE - BIBLIOGRAPHY

HEADQUARTERS
UNITED STATES ARMY MATERIEL COMMAND
WASHINGTON, D.C. 20315

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ENGINEERING DESIGN HANDBOOK
MILITARY PYROTECHNICS SERIES
PART FIVE--BIBLIOGRAPHY

This pamphlet is published for the information and guidance of all concerned.

(AMCRD-R)

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PREFACE

The Engineering Design Handbook Series of the Army Materiel Command is a coordinated series of handbooks containing basic information and fundamental data useful in the design and development of Army materiel and systems. The handbooks are authoritative reference books of practical information and quantitative facts helpful in the design and development of Army materiel so that it will meet the tactical and the technical needs of the Armed Forces.

This handbook, *Military Pyrotechnics, Part Five, Bibliography*, is a supporting handbook for all of the handbooks in the Pyrotechnics Series. It contains a rich source of references, in addition to those specifically listed in the other handbooks of this Series.

Material for this handbook was compiled by the Denver Research Institute of the University of Denver while in the process of preparing the manuscript for *Military Pyrotechnics, Part One, Theory and Application*. Noteworthy in the collection of this source material was the diligent pursuance of Mrs. Alta Morrison of the Denver Research Institute. This material was collected for the Engineering Handbook Office of Duke University, prime contractor to the U. S. Army Research Office-Durham.

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Comments and suggestions on this handbook are welcome and should be addressed to Army Research Office-Durham, Box CM, Duke Station, Durham, North Carolina 27706.

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INTRODUCTION

ORGANIZATION

The bibliography is composed of selected references to source material of particular value in the field of military pyrotechnics. Material available at mid-year 1964 was included in the search.

The bibliography is organized into two main sections: references from the open literature and documents such as reports and memoranda prepared and issued by public and private agencies and organizations. The former references are listed by author, whereas the latter are listed by source installation and alphabetized according to report title; document numbers, authors, dates and numbers assigned at the Defense Documentation Center are given to the extent that these are known. In many cases all of this information was not available and the entry, therefore, is incomplete to such extent.

AVAILABILITY

Defense Documentation Center numbers are given for all documents for which the numbers were available. Documents listed but not identified with DDC numbers may be on file at the Center and inquiry should be directed there. Documents not available through DDC may be requested from the source agency.

CLASSIFICATION

Documents listed in the bibliography include some which carried security classification when issued. Because of changing categories, it is not practical to include the security classification. Prospective users may, therefore, be required to establish security clearance and need to know to obtain some material.

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Wesleyan Pyrotechnics Survey, Final Report, Feb. 1946.

WHITE SANDS MISSILE RANGE

New Mexico *See*: **ARMY TEST AND EVALUATION COMMAND.**

WRIGHT AIR DEVELOPMENT CENTER

Wright-Patterson Air Force Base, Ohio *See*: **AIR TECHNICAL SERVICE COMMAND.**

ENGINEERING DESIGN HANDBOOK SERIES

Listed below are the Handbooks which have been published or submitted for publication. Handbooks with publication dates prior to 1 August 1962 were published as 20-series Ordnance Corps pamphlets. AMC Circular 310-38, 19 July 1963, redesignated those publications as 706-series AMC pamphlets (i.e., ORDP 20-138 was redesignated AMCP 706-138). All new, reprinted, or revised Handbooks are being published as 706-series AMC pamphlets.

<u>General and Miscellaneous Subjects</u>		<u>Ballistic Missile Series</u>	
<u>No.</u>	<u>Title</u>	<u>No.</u>	<u>Title</u>
106	Elements of Armament Engineering, Part One, Sources of Energy	281(S-RD)	Weapon System Effectiveness (U)
107	Elements of Armament Engineering, Part Two, Ballistics	282	Propulsion and Propellants
108	Elements of Armament Engineering, Part Three, Weapon Systems and Components	283	Aerodynamics
110	Experimental Statistics, Section 1, Basic Concepts and Analysis of Measurement Data	284(C)	Trajectories (U)
111	Experimental Statistics, Section 2, Analysis of Enumerative and Classificatory Data	286	Structures
112	Experimental Statistics, Section 3, Planning and Analysis of Comparative Experiments	<u>Ballistics Series</u>	
113	Experimental Statistics, Section 4, Special Topics	140	Trajectories, Differential Effects, and Data for Projectiles
114	Experimental Statistics, Section 5, Tables	150	Interior Ballistics of Guns
121	Packaging and Pack Engineering	160(S)	Elements of Terminal Ballistics, Part One, Introduction, Kill Mechanisms, and Vulnerability (U)
134	Maintenance Engineering Guide for Ordnance Design	161(S)	Elements of Terminal Ballistics, Part Two, Collection and Analysis of Data Concerning Targets (U)
135	Inventions, Patents, and Related Matters (Revised)	162(S-RD)	Elements of Terminal Ballistics, Part Three, Application to Missile and Space Targets (U)
136	Servomechanisms, Section 1, Theory	<u>Carriages and Mounts Series</u>	
137	Servomechanisms, Section 2, Measurement and Signal Converters	340	Carriages and Mounts--General
138	Servomechanisms, Section 3, Amplification	341	Cradles
139	Servomechanisms, Section 4, Power Elements and System Design	342	Recoil Systems
170(C)	Armor and Its Application to Vehicles (U)	343	Top Carriages
250	Guns--General (Guns Series)	344	Bottom Carriages
252	Gun Tubes (Guns Series)	345	Equilibrators
270	Propellant Actuated Devices	346	Elevating Mechanisms
290(C)	Warheads--General (U)	347	Traversing Mechanisms
331	Compensating Elements (Fire Control Series)	<u>Military Pyrotechnics Series</u>	
355	The Automotive Assembly (Automotive Series) (Revised)	186	Part Two, Safety, Procedures and Glossary
<u>Ammunition and Explosives Series</u>		187	Part Three, Properties of Materials Used in Pyrotechnic Compositions
175	Solid Propellants, Part One	<u>Surface-to-Air Missile Series</u>	
176(C)	Solid Propellants, Part Two (U)	291	Part One, System Integration
177	Properties of Explosives of Military Interest, Section 1	292	Part Two, Weapon Control
178(C)	Properties of Explosives of Military Interest, Section 2 (U)	293	Part Three, Computers
179	Explosive Trains	294(S)	Part Four, Missile Armament (U)
210	Fuzes, General and Mechanical	295(S)	Part Five, Countermeasures (U)
211(C)	Fuzes, Proximity, Electrical, Part One (U)	296	Part Six, Structures and Power Sources
212(S)	Fuzes, Proximity, Electrical, Part Two (U)	297(S)	Part Seven, Sample Problem (U)
213(S)	Fuzes, Proximity, Electrical, Part Three (U)	<u>Materials Series*</u>	
214(S)	Fuzes, Proximity, Electrical, Part Four (U)	149	Rubber and Rubber-Like Materials
215(C)	Fuzes, Proximity, Electrical, Part Five (U)	212	Gasket Materials (Nonmetallic)
244	Section 1, Artillery Ammunition--General, with Table of Contents, Glossary and Index for Series	691	Adhesives
245(C)	Section 2, Design for Terminal Effects (U)	692	Guide to Selection of Rubber O-Rings
246	Section 3, Design for Control of Flight Characteristics	693	Magnesium and Magnesium Alloys
247	Section 4, Design for Projection	694	Aluminum and Aluminum Alloys
248	Section 5, Inspection Aspects of Artillery Ammunition Design	697	Titanium and Titanium Alloys
249	Section 6, Manufacture of Metallic Components of Artillery Ammunition	698	Copper and Copper Alloys
		699	Guide to Specifications for Flexible Rubber Products
		700	Plastics
		721	Corrosion and Corrosion Protection of Metals
		722	Glass

*The Materials Series is being published as Military Handbooks (MIL-HDBK-) which are available to Department of Defense Agencies from the Naval Supply Depot, 5801 Tabor Avenue, Philadelphia, Pennsylvania 19120.