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JASE BEARD

Scientific and Technical Aerospace Reports Springer Science & Business Media
Authored by an insider with over 40 years of high energy materials (HEMs) experience in academia, industry and defense organizations, this handbook and ready reference covers all important HEMs from the 1950s to the present with their respective properties and intended purposes. Written at an attainable level for professionals, engineers and technicians alike, the book provides a comprehensive view of the current status and suggests further directions for research and development. An introductory chapter on the chemical and thermodynamic basics allows the reader to become acquainted with the fundamental features of explosives, before moving on to the important safety aspects in processing, handling, transportation and storage of high energy materials. With its collation of results and formulation strategies hitherto scattered in the literature, this should be on the shelf of every HEM researcher and developer.
Energy Research Abstracts Walter de Gruyter GmbH & Co KG
Written for students with no previous knowledge of explosives, this concise, easy-to-read book outlines the basic principles needed to understand the chemical mechanisms of explosions.
Emerging Energetic Materials: Synthesis, Physicochemical, and Detonation Properties Springer
Revised and expanded to reflect new developments in the field, this book outlines the basic principles required to understand the chemical processes of explosives. The Chemistry of Explosives provides an overview of the history of explosives, taking the reader to future developments. The text on the classification of explosive materials contains much data on the physical parameters of primary and secondary explosives. The explosive processes of deflagration and detonation, including the theory of ‘hotspots’ for the detonation process, are introduced and many examples are provided in the detailed description on the thermochemistry of explosives. New material includes coverage of the latest explosive compositions, such as high temperature explosives, nitrocubanes, energetic polymers, plasticizers and insensitive munitions (IM). This concise, readable book is ideal for students and new graduates with no previous knowledge of explosive materials. With detailed information on a vast range of explosives in tabular form and an extensive bibliography, this book will also be useful to anyone needing succinct information on the subject.
Chemical Abstracts Royal Society of Chemistry
Semiannual, with semiannual and annual indexes. References to all scientific and

technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

Decennial Index to Chemical Abstracts
Wiley-Interscience
Contains a library of information for the chemical industry. The 4th edition has undergone a complete revision, with the inclusion of many new subjects which reflect the growth in chemical technology through the 1990s. The book includes expanded coverage of biotechnology and materials science.

Department Of Defense Index of Specifications and Standards Alphabetical Listing Part I July 2005
CRC Press
This dictionary contains 739 entries with about 1400 references to the primary literature. Details on the composition, performance, sensitivity and other pertinent properties of Energetic Materials such as High Explosives, Propellants, Pyrotechnics, as well as important ingredients such as Oxidizers, Fuels, Binders, and Modifiers are given and presented partly in over 180 tables with more than 240 structural formulas . In detail the dictionary gives elaborate descriptions of 460 Chemical Substances 170 Pyrotechnic Compositions 360 High Explosive and Propellant Formulations In addition, the basic physical and thermochemical properties of 435 pure substances (elements & compounds) typically occuring as ingredients or reaction products are given too. 150 Figures, schemes and diagrams explain Applications, Test methods, Scientific facilities, and finally Individuals closely tied with the development and investigation of Energetic Materials. The book is intended for readers with a technical or scientific background, active in governmental agencies, research institutes, trade and industry, concerned with the procurement, development, manufacture, investigation and use of Energetic Materials, such as High Explosives, Propellants, Pyrotechnics, Fireworks and Ammunition. The book serves both as a daily reference for the experienced as well as an introduction for the newcomer to the field.

39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: 03-5100 - 03-5149 DIANE Publishing
By browsing about 10 000 000 scientific articles of over 200 major journals mainly in a 'cover to cover approach' some 200 000 publications were selected. The extracted data is part of the following fundamental material research fields: crystal structures (S), phase diagrams (also called constitution) (C) and the comprehensive field of intrinsic physical properties (P). This work has been done systematically starting with the literature going back to 1900. The above mentioned research field codes (S, C, P) as well as the chemical systems investigated in each publication were included in the present work. The aim of the Inorganic Substances Bibliography is to provide researchers with a comprehensive compilation of all up to now published scientific publications on inorganic systems in only three handy volumes.

ERDA Energy Research Abstracts
Walter de Gruyter

Substantially revising and updating the classic reference in the field, this handbook offers a valuable overview and myriad details on current chemical processes, products, and practices. No other source offers as much data on the chemistry, engineering, economics, and infrastructure of the industry. The Handbook serves a spectrum of individuals, from those who are directly involved in the chemical industry to others in related industries and activities. It provides not only the underlying science and technology for important industry sectors, but also broad coverage of critical supporting topics. Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry (specifically, biomass conversion), Practical Catalysis, and Environmental Measurements; as well as expanded treatment of Safety, chemistry plant security, and Emergency Preparedness. Understanding these factors allows them to be part of the total process and helps achieve optimum results in, for example, process development, review, and modification. Important topics in the energy field, namely nuclear, coal, natural gas, and petroleum, are covered in individual chapters. Other new chapters include energy conversion, energy storage, emerging nanoscience and technology. Updated sections include more material on biomass conversion, as well as three chapters covering biotechnology topics, namely, Industrial Biotechnology, Industrial Enzymes, and Industrial Production of Therapeutic Proteins.

Chemistry of Explosives Royal Society of Chemistry

Rock Blasting and Explosives Engineering covers the practical engineering aspects of many different kinds of rock blasting. It includes a thorough analysis of the cost of the entire process of tunneling by drilling and blasting in comparison with full-face boring. Also covered are the fundamental sciences of rock mass and material strength, the thermal decomposition, burning, shock initiation, and detonation behavior of commercial and military explosives, and systems for charging explosives into drillholes. Functional descriptions of all current detonators and initiation systems are provided. The book includes chapters on flyrock, toxic fumes, the safety of explosives, and even explosives applied in metal working as a fine art. Fundamental in its approach, the text is based on the practical industrial experience of its authors. It is supported by an abundance of tables, diagrams, and figures. This combined textbook and handbook provides students, practitioners, and researchers in mining, mechanical, building construction, geological, and petroleum engineering with a source from which to gain a thorough understanding of the constructive use of explosives.

Military Explosives John Wiley & Sons

This book summarizes science and technology of a new generation of high-energy andinsensitive explosives. The objective is to provide professionals with comprehensiveinformation on the synthesis and the physicochemical and detonation properties ofthe explosives. Potential technologies applicable for treatment of contaminated wastestreams from manufacturing facilities and environmental matrices are also be included.This book provides the reader an insight into the depth and breadth of theoreticaland empirical

models and experimental techniques currently being developed in thefield of energetic materials. It presents the latest research by DoD engineers andscientists, and some of DoD's academic and industrial researcher partners. The topicsexplored and the simulations developed or modified for the purposes of energetics mayfind application in other closely related fields, such as the pharmaceutical industry.One of the key features of the book is the treatment of wastewaters generated duringmanufacturing of these energetic materials.

Rock Blasting and Explosives Engineering Walter de Gruyter GmbH & Co KG

The book gives an introduction to energetic materials and lasers, properties of such materials and the current methods for initiating energetic materials. The following chapters and sections highlight the properties of lasers, and safety aspects of their application. It covers the properties of in-service energetic materials, and also materials with prospects of being used as insensitive ammunitions in future weapon or missiles systems or as detonators in civilian (mining) applications. Because of the diversity of the topics some sections will naturally separate into different levels of expertise and knowledge.

ERDA Energy Research Abstracts Royal Society of Chemistry

This concise, easy-to-read book outlines the basic principles needed to understand the chemical mechanisms of explosion. Covering detonation, deflagration, initiation, the latest theories on the production of ""hotspots"", thermochemistry, thermodynamics and kinetics, the text includes detailed formulations and reactions presented with thermochemical calculations to aid understanding. The history, theory and chemical types of explosives are introduced, along with propellants, pyrotechnics and the most up-to-date information on energetic binders for explosive compositions. Covering all aspects of explosive chemistry from history to manufacturing techniques and formulation, The Chemistry of Explosives is a unique text which introduces difficult subjects in a readable manner. Ideal for A-level students and new graduates with no previous knowledge of explosive materials, it will also be useful to anyone needing succinct information on the subject.

Applied Mechanics Reviews Springer Science & Business Media

The 4th revised edition expands on the basic chemistry of high energy materials of the precious editions and examines new research developments, including hydrodynamics and ionic liquids. Applications in military and civil fields are discussed. This work is of interest to advanced students in chemistry, materials science and engineering, as well as to all those working in defense technology.

The Chemistry of Explosives Springer Nature

This is the first comprehensive overview of this topic. It serves as a single source for information about the properties, preparation, and uses of all relevant primary explosives. The first chapter provides background such as the basics of initiation and differences between requirements on primary explosives used in detonators and igniters. The authors then clarify the influence of physical characteristics on explosive properties, focusing on those properties required for primary explosives.

Furthermore, the issue of sensitivity is discussed. All the chapters on particular groups of primary explosives are structured in the same way, including introduction, physical and chemical properties, explosive properties, preparation and documented use. The authors thoroughly verified all data and information. A unique feature of this book are original microscopic images of some explosives.
Primary Explosives John Wiley & Sons

Energy Research Abstracts
High Explosives, Propellants, Pyrotechnics
Encyclopedia of Chemical Technology: Explosives and propellants to flame retardants for textiles
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