

JOHN A. CONKLING
CHRISTOPHER J. MOCELLA

Chemistry of Pyrotechnics

Basic Principles and Theory
SECOND EDITION

 CRC Press
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Chemistry Of Pyrotechnics Basic Principles And Theory Second Edition

Rosina Ehmman



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Chemistry of Pyrotechnics John A. Conkling, Chris Mocella, 1985-07-02 A perennial bestseller Chemistry of Pyrotechnics and Explosives Basic Principles and Theory is simply the most definitive reference in this field Author J A Conkling first covers the requisite background in chemistry thermodynamics and light emission introduces oxidizing agents fuels binders and retardants then explores virtually every aspect of formulating pyrotechnics Topics include the requirements for and preparation of high energy mixtures ignition and propagation heat and delay compositions and color and light production including sparks flitter and glitter The journal Pyrotechnica said this book belongs on every pyrotechnist s bookshelf

[Chemistry of Pyrotechnics](#) Chris Mocella, John A. Conkling, 2019-01-15 This book provides chemists with technical insight on pyrotechnics and explosives It emphasizes basic chemical principles and practical hands on knowledge in the preparation of energetic materials It examines the interactions between and adaptations of pyrotechnics to changing technology in areas such as obscuration science and low signature flame emission The updated third edition discusses chemical and pyrotechnic principles components of high energy materials elements of ignition propagation and sensitivity It offers heat compositions including ignition mixes delays thermites and propellants and investigates the production of smoke and sound as well as light and color

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Practical Military Ordnance Identification, Second Edition Thomas Gersbeck, 2019-04-05 The threat variables associated with military ordnance are enormous requiring the application of a structured process to identify unknown munitions The focus of Practical Military Ordnance Identification Second Edition is the application of a practical deductive process to identify unknown ordnance items that are commonly recovered outside military control The author supplies a seven step procedure to identify unknown munitions by their category group and type Detailed logic trees help users narrow down the possibilities in order to accurately identify ordnance The book covers the safety precautions associated with each category and group of ordnance It describes many ordnance construction characteristics and explains the fundamentals of military ordnance fuzing Appendices define terms and supply abbreviations and acronyms used to describe military ordnances Coverage new to this edition include a list of conventional markings additional safety precautions to take an expanded list of high explosives additional technical details on explosives effects hazards associated with pyrotechnics pyrophorics smoke compounds and incendiaries a section on pre 1870 projectiles hand grenades landmines underwater ordnances and rockets and details on Man Portable Air Defense Systems MANPADS missile systems

Green Energetic

Materials Tore Brinck,2014-01-15 This comprehensive book presents a detailed account of research and recent developments in the field of green energetic materials including pyrotechnics explosives and propellants This area is attracting increasing interest in the community as it undergoes a transition from using traditional processes to more environmentally friendly procedures The book covers the entire line of research from the initial theoretical modelling and design of new materials to the development of sustainable manufacturing processes It also addresses materials that have already reached the production line as well as considering future developments in this evolving field

Demystifying Explosives Sethuramasharma Venugopalan,2015-01-09 Demystifying Explosives Concepts in High Energy Materials explains the basic concepts of and the science behind the entire spectrum of high energy materials HEMs and gives a broad perspective about all types of HEMs and their interrelationships Demystifying Explosives covers topics ranging from explosives deflagration detonation and pyrotechnics to safety and security aspects of HEMS looking at their aspects particularly their inter relatedness with respect to properties and performance The book explains concepts related to the molecular structure of HEMs their properties performance parameters detonation and shock waves including explosives and propellants The theory based title also deals with important safety and security and interesting constructive applications aspects connected with HEMs and is of fundamental use to students in their introduction to these materials and applications Explains the concept of high energy materials in simple language and down to earth examples Worked examples and problems are given wherever required Demystifies the concept of explosives Limited use of big and complex equations Questions and Suggested Reading are given at the end of each chapter

Cai Guo-Qiang Rachel Rivenc,2025-06-24 This groundbreaking book provides the first material study of the celebrated contemporary artist Cai Guo Qiang known worldwide for his use of subversive materials particularly gunpowder Cai Guo Qiang China b 1957 is among the most prominent contemporary artists active today His prolific diverse creative practice which includes gunpowder drawings and paintings explosion events videos multimedia installations and site specific works draws on a personal belief system that freely blends symbols and tenets from Eastern and Western traditions Cai s output seeks to establish dialogues among different cultures different periods of time and even different species always while probing our shared humanity and the connections that can be divined across space and time out of chaos and disorder Based on in depth interviews between the author and artist and with studio assistants as well as extensive examination sampling and scientific analysis of a wide range of artworks this publication addresses the implications of Cai s distinctive materials and processes and their associated conservation issues Written for conservation scientists conservators specialists in contemporary art history museum curators collections managers practicing artists collectors and art enthusiasts this book offers insights into the life methods and materials of a leading figure in the art world The technical discussions provide essential findings that will inform strategies for the future care of his works

Encyclopedic Dictionary of Pyrotechnics K.L. Kosanke,Barry T. Sturman,Robert M. Winokur,B.J.

Kosanke,2012-10 Explosion, Shock Wave and High-Energy Reaction Phenomena II Shigeru Itoh,J. Matsue,Kazuyuki Hokamoto,2013-07-31 Selected peer reviewed papers from the International Symposium on Explosion Shock Wave and High Energy Reaction Phenomena 2013 ESHP Symposium 2013 March 27 29 2013 Nago Okinawa Japan Color in the Age of Impressionism Laura Anne Kalba,2017-04-21 This study analyzes the impact of color making technologies on the visual culture of nineteenth century France from the early commercialization of synthetic dyes to the Lumi re brothers perfection of the autochrome color photography process Focusing on Impressionist art Laura Anne Kalba examines the importance of dyes produced in the second half of the nineteenth century to the vision of artists such as Edgar Degas Pierre Auguste Renoir and Claude Monet The proliferation of vibrant new colors in France during this time challenged popular understandings of realism abstraction and fantasy in the realms of fine art and popular culture More than simply adding a touch of spectacle to everyday life Kalba shows these bright varied colors came to define the development of a consumer culture increasingly based on the sensual appeal of color Impressionism emerging at a time when inexpensively produced color functioned as one of the principal means by and through which people understood modes of visual perception and signification mirrored and mediated this change shaping the ways in which people made sense of both modern life and modern art Demonstrating the central importance of color history and technologies to the study of visuality Color in the Age of Impressionism adds a dynamic new layer to our understanding of visual and material culture Forthcoming Books Rose Army,2003-04 New Technical Books New York Public Library,1986 Books in Print ,1991 Chemical Engineering Education ,1986

Explosives Rudolf Meyer,Josef Köhler,Axel Homburg,2008-02-08 This world famous work has been enlarged and updated without tampering with its tried and tested format Around 500 alphabetically ordered monographic entries consider the physicochemical properties production methods and safe applications of over 120 explosive chemicals while discussing 70 fuels additives and oxidizing agents and describing the relevant test methods The extensive thermodynamic data has been thoroughly updated and now also provided on a CD ROM compiled by the Fraunhofer Institute of Chemical Technology This excerpt from the ICT Thermodynamical Database not only includes additional thermodynamic data and references to further reading but also features enhanced search facilities Other key features include a 1 500 entry combined index and glossary with terms and abbreviations in English French and German conversion tables and numerous literature references A handy reference for explosive experts and also for translators public authorities and patent lawyers From reviews of previous editions This wealth of information and an index that comprises some 1500 keywords and several conversion tables make this a unique source of knowledge for anybody working with explosives Propellants Explosives Pyrotechnics Mines Magazine ,1944 Includes list of the Alumni **Year Book and Directory - Colorado School of Mines** Colorado School of Mines,1944 Scientific and Technical Books and Serials in Print ,1989 **Subject Guide to Books in Print** ,1971 Books in Print Supplement ,2002

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