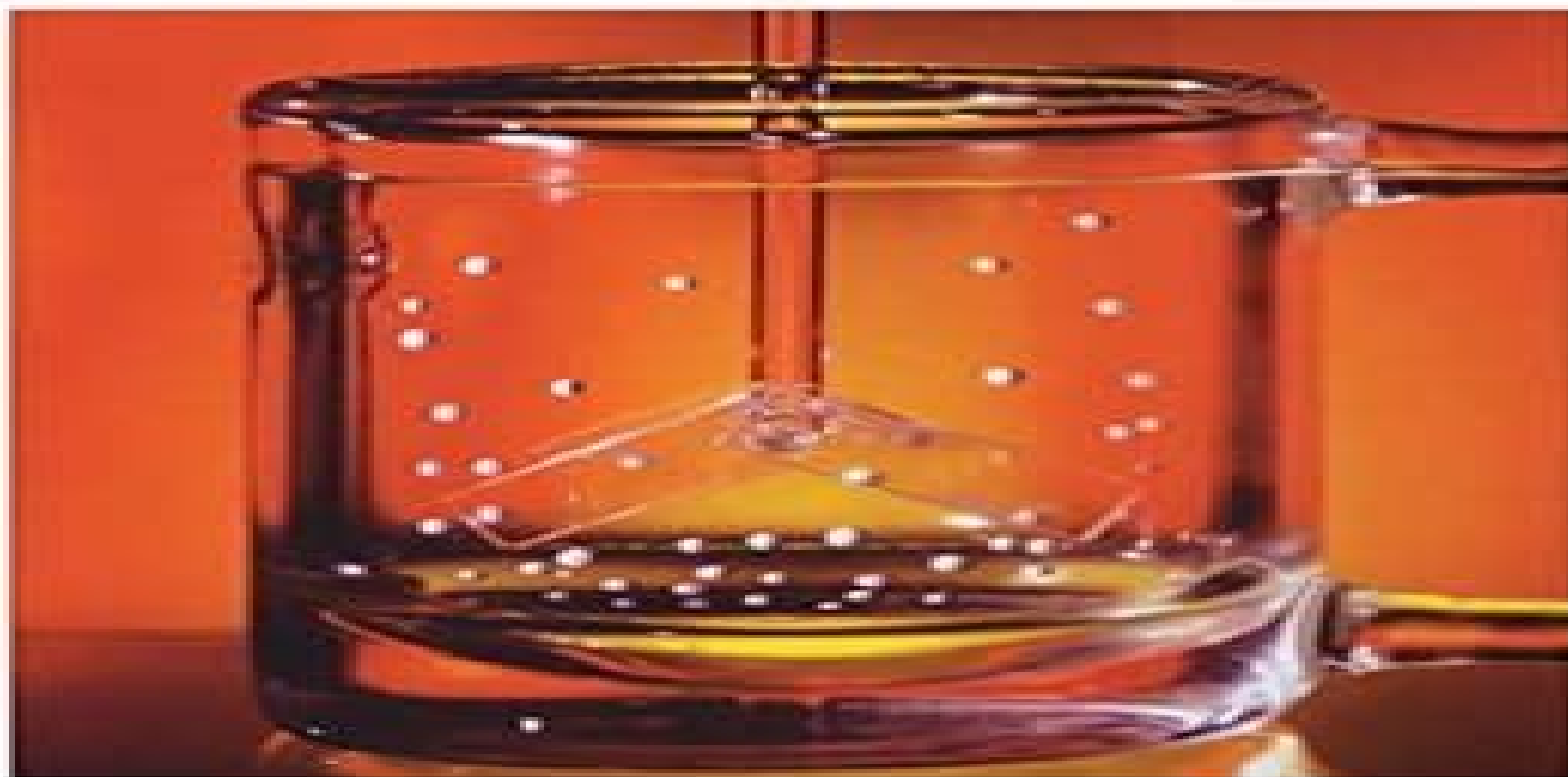


Edited by  
Ulrich Teipel

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# Energetic Materials

Particle Processing and Characterization



# Energetic Materials Processing And Characterization Of Particles

**Ensheng Dong**



## **Energetic Materials Processing And Characterization Of Particles:**

**Energetic Materials** Ulrich Teipel, 2006-03-06 Incorporation of particular components with specialized properties allows one to tailor the end product's properties. For instance, the sensitivity, burning behavior, thermal or mechanical properties or stability of energetic materials can be affected and even controllably varied through incorporation of such ingredients. This book examines particle technologies as applied to energetic materials such as propellants and explosives, thus filling a void in the literature on this subject. Following an introduction covering general features of energetic materials, the first section of this book describes methods of manufacturing particulate energetic materials, including size reduction, crystallization, atomization, particle formation using supercritical fluids, and microencapsulation, agglomeration phenomena, special considerations in mixing explosive particles, and the production of nanoparticles. The second section discusses the characterization of particulate materials. Techniques and methods such as particle size analysis, morphology elucidation, and the determination of chemical and thermal properties are presented. The wettability of powders and rheological behavior of suspensions and solids are also considered. Furthermore, methods of determining the performance of particular energetic materials are described. Each chapter deals with fundamentals and application possibilities of the various methods presented, with particular emphasis on issues applicable to particulate energetic materials. The book is thus equally relevant for chemists, physicists, material scientists, chemical and mechanical engineers, and anyone interested or engaged in particle processing and characterization technologies.

**Energetic materials** Ulrich Teipel, 1998 *High-Performance Ceramics VII* Wei Pan, Jiang Hong Gong, 2012-06-04 Selected peer-reviewed papers from the Seventh China International Conference on High Performance Ceramics CICC 7 November 4-7 2011 Xiamen China *The Chemical Engineer*, 2005 Energy Materials Coordinating Committee (EMaCC): Fiscal Year 1998 Annual Technical Report, *Energy Materials Coordinating Committee (EMaCC): Fiscal Year 1997 Annual Technical Report*, **Cellulose Chemistry and Technology**, 2007

**Energy Research Abstracts**, 1977 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. Scientific and Technical Aerospace Reports, 1995 Lists citations with abstracts for aerospace-related reports obtained from world-wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

*Advanced Research on Material Engineering, Chemistry, Bioinformatics II* Helen Zhang, David Jin, 2012-06-04 Selected peer-reviewed papers from the 2012 2nd International Conference on Material Engineering Chemistry Bioinformatics MECB 2012 July 14-15 Xi'an, China *Decomposition, Combustion, and Detonation Chemistry of Energetic Materials* Thomas B.

Brill,1996 Energetic materials are distinguished from other materials primarily by the fact that rapid exothermic reactions can be induced with the release of gaseous products This complex phenomenon cuts across many boundaries of chemistry synthesis kinetics thermodynamics spectroscopy quantum and molecular dynamics calculations etc and engineering physics shock and detonation waves hydrodynamics fracture and solid mechanics defects etc This volume offers the latest chemistry advancements in understanding the complex dynamic processes in these materials in the condensed phase The focus is on fundamental research into the rates and pathways of rapid exothermic reactions product specification diagnostic methods molecular processes of energy transfer and molecular processes at extreme pressure and temperature Many novel materials are discussed *DOD Researchers Provide a Look Inside Nanotechnology* ,2002 **Chemical Engineering Progress** ,2009 *International Aerospace Abstracts* ,1996 41st AIAA Aerospace Sciences Meeting & Exhibit ,2003

**Introduction to Aeronautical Dynamics** Manfred Rauscher,1953 **Memoirs of the Institute of Scientific and Industrial Research, Osaka University** Ōsaka Daigaku. Sangyō Kagaku Kenkyūjo,2004 **Peterson's Annual Guides to Graduate Study** ,1981 **International Conference on Energetic Materials** ,2000 The Final Proceedings for International Conference on Energetic Materials 29 June 1999 2 July 1999 This is an interdisciplinary conference Topics include Components Particle Technology Synthesis Production and Processing Characterization of Energetic Materials Safety Technology Quality Assurance and Environmental Aspects Shock Compression of Condensed Matter--2003 Michael D. Furnish,Yogendra M. Gupta,Jerry W. Forbes,2004 Two volumes contain 350 papers presented at the 13th Biennial International Conference of the APS Topical Group on Shock Compression of Condensed Matter Portland Oregon July 2003 One of the three plenary lectures was given by James Asay Institute for Shock Physics Washington State U Pullman Washington on wave structure studies in condensed matter physics The papers in v 1 address nonenergetic materials energetic materials phase transitions the modeling simulation theory and molecular dynamics modeling of nonreactive and reactive materials spall fracture and fragmentation constitutive and microstructural properties of metals mechanical properties of polymers and composites and mechanical properties of ceramics glasses ionic solids and liquids The largest number of papers in v 2 are under the headings mechanical properties of reactive materials detonation and burn phenomena explosive and initiation studies experimental techniques and geophysics structures and medical applications The contributors represent 14 countries where they work in state and private industry and academic settings Indexed by both author and subject Annotation 2004 Book News Inc Portland OR booknews com

## **Energetic Materials Processing And Characterization Of Particles** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Energetic Materials Processing And Characterization Of Particles**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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