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Energetic Materials at Extreme Conditions



Energetic Materials At Extreme Conditions Springer Theses

Maxim Yu. Orlov, P. M. Visakh

Energetic Materials At Extreme Conditions Springer Theses:

Energetic Materials at Extreme Conditions David I.A. Millar, 2011-09-24 David I A Millar's thesis explores the effects of extreme conditions on energetic materials His study identifies and structurally characterises new polymorphs obtained at high pressures and or temperatures The performance of energetic materials pyrotechnics propellants and explosives can depend on a number of factors including sensitivity to detonation detonation velocity and chemical and thermal stability Polymorphism and solid state phase transitions may therefore have significant consequences for the performance and safety of energetic materials. In order to model the behaviour of these important materials effectively under operational conditions it is essential to obtain detailed structural information at a range of temperatures and pressures Crystallography Elena Boldyreva, Przemyslaw Dera, 2010-09-03 This unique book is devoted to the theme of crystallographic studies at high pressure It places emphasis on the phenomena characteristic to the compressed state of matter as well as experimental and theoretical techniques used to study these phenomena Static Compression of Energetic Materials Suhithi M. Peiris, Gasper J. Piermarini, 2009-01-03 Developing and testing novel energetic materials is an expanding branch of the materials sciences Reaction detonation or explosion of such materials invariably produce extremely high pressures and temperatures To study the equations of state EOS of energetic materials in extreme regimes both shock and static high pressure studies are required The present volume is an introduction and review of theoretical experimental and numerical aspects of static compression of such materials Chapter 1 introduces the basic experimental tool the diamond anvil pressure cell and the observational techniques used with it such as optical microscopy infrared spectrometry and x ray diffraction Chapter 2 outlines the principles of high nitrogen energetic materials synthesis Chapters 3 and 4 examine and compare various EOS formalisms and data fitting for crystalline and non crystalline materials respectively Chapter 5 details the reaction kinetics of detonating energetic materials Chapter 6 investigates the interplay between static and dynamic shock studies Finally Chapters 7 and 8 introduce numerical simulations molecular dynamics of energetic materials under either hydrostatic or uni axial stress and ab inito treatments of defects in crystalline materials This timely volume meets the growing demand for a state of the art introduction and review of the most relevant aspects of static compression of energetic materials and will be a valuable reference to researchers and scientists working in academic industrial and governmental Nanomaterials under Extreme Conditions Manuel Ahumada, María Belén Camarada, 2023-08-04 research laboratories Nanomaterials have supported humankind s advancement becoming one of the most important industry sectors and are expected to rise to the top by 2030 However significant challenges must be overcome such as the performance and efficiency of the material under different environmental conditions This book seeks to promote a critical view on using nanomaterials under extreme conditions found in our body planet and outer space Therefore nanomaterials are covered from multiple points of view allowing the reader to get an enriching presentation of current knowledge on nanomaterials limitations

advancements and applications under extreme conditions **Chemistry and Physics of Energetic Materials** S.N. Bulusu, 2012-12-06 This book represents a collection of lectures presented at the NATO Advanced study Institute ASI on Chemistry Physics of the Molecular Processes in Energetic Materials held at Hotel Torre Normanna Altavilla Milicia Sicily Italy September 3 to 15 1989 The institute was attended by seventy participants including twenty lecturers drawn from thirteen countries The purpose of the institute was to review the major ad vances made in recent years in the theoretical and experi mental aspects of explosives and propellants In accordance with the format of the NATO ASI it was arranged to have a relatively small number of speakers to present in depth re view type lectures emphasizing the basic research aspects of the subject over a two week period Most of the speakers gave two lectures each in excess of one hour with addition al time for discussions. The scope of the meeting was limit ed to molecular and spectroscopic studies since the hydro dynamic aspects of detonation and various performance crite ria of energetic materials are often covered adequately in other international meetings An attempt was made to have a coherent presentation of various theoretical computational and spectroscopic approaches to help a better understanding of energetic materials from a molecular point of view The progress already made **Dynamic Behavior of Materials, Volume 1** Steven Mates, Veronica in these areas is such that structure property e g Eliasson, 2025-08-07 Dynamic Behavior of Materials Volume 1 of the Proceedings of the 2021 SEM Annual Conference Exposition on Experimental and Applied Mechanics the first volume of four from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics including papers on Synchrotron Applications Advanced Dynamic Imaging Quantitative Visualization of Dynamic Events Novel Experimental Techniques Dynamic Behavior of Geomaterials Dynamic Failure Fragmentation Dynamic Response of Low Impedance Materials Hybrid Experimental Computational Studies Shock and Blast Loading Advances in Material Modeling Industrial Applications Computational Science and Its Applications - ICCSA 2006 Osvaldo Gervasi, Vipin Kumar, C.J. Kenneth Tan, David Taniar, Antonio Laganà, Youngsong Mun, Hyunseung Choo, 2006-05-11 The five volume set LNCS 3980 3984 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2006 The volumes present a total of 664 papers organized according to the five major conference themes computational methods algorithms and applications high performance technical computing and networks advanced and emerging applications geometric modelling graphics and visualization information systems and information technologies This is Part V Proceedings of the XII All Russian Scientific Conference on Current Issues of Continuum Mechanics and Celestial Mechanics Maxim Yu. Orlov, P. M. Visakh, 2024-03-31 This book presents peer reviewed articles from The XII All Russian Scientific Conference on Current issues of Continuum Mechanics and Celestial Mechanics XII CICMCM held on 15 17 November 2023 at Toms in Russia It summarizes the latest studies on shock and explosive loading of promising materials including functionally graded materials

porous materials multilayer ceramic structures advanced materials and etc It provides a platform for researchers and professionals to exchange ideas and present the latest findings in these important and growing areas of applied physics and 21st Century Challenges in Chemical Crystallography I D. Michael P. Mingos, Paul R. Raithby, 2021-01-20 This volume summarises recent developments and possible future directions for small molecule X ray crystallography It reviews specific areas of crystallography which are rapidly developing and places them in a historical context The interdisciplinary nature of the technique is emphasised throughout It introduces and describes the chemical crystallographic and synchrotron facilities which have been at the cutting edge of the subject in recent decades The introduction of new computer based algorithms has proved to be very influential and stimulated and accelerated the growth of new areas of science The challenges which will arise from the acquisition of ever larger databases are considered and the potential impact of artificial intelligence techniques stressed Recent advances in the refinement and analysis of X ray crystal structures are highlighted In addition the recent developments in time resolved single crystal X ray crystallography are discussed Recent years have demonstrated how this technique has provided important mechanistic information on solid state reactions and complements information from traditional spectroscopic measurements. The volume highlights how the prospect of being able to routinely watch chemical processes as they occur provides an exciting possibility for the future Recent advances in X ray sources and detectors that have also contributed to the possibility of dynamic single crystal X ray diffraction methods are presented The coupling of crystallography and quantum chemical calculations provides detailed information about electron distributions in crystals and has resulted in a more detailed understanding of chemical bonding The volume will be of interest to chemists and crystallographers with an interest in the synthesis characterisation and physical and catalytic properties of solid state materials Postgraduate students entering the field will benefit from a historical introduction to the subject and a description of those techniques which are currently used Since X ray crystallography is used so widely in modern chemistry it will serve to alert senior chemists to those developments which will become routine in coming decades It will also be of interest to the broad community of computational chemists who study chemical systems

Uncertainty Quantification in Scientific Computing Andrew Dienstfrey, Ronald Boisvert, 2012-08-11 This book constitutes the refereed post proceedings of the 10th IFIP WG 2 5 Working Conference on Uncertainty Quantification in Scientific Computing WoCoUQ 2011 held in Boulder CO USA in August 2011 The 24 revised papers were carefully reviewed and selected from numerous submissions They are organized in the following topical sections UQ need risk policy and decision making UQ theory UQ tools UQ practice and hot topics The papers are followed by the records of the discussions between the participants and the speaker Energy Materials 2017 Xingbo Liu, Zhengdong Liu, Kyle Brinkman, Subodh Das, Sebastien Dryepondt, Jeffery W. Fergus, Zhancheng Guo, Minfang Han, Jeffrey A. Hawk, Teruhisa Horita, Peter Hosemann, Jian Li, Elsa Olivetti, Amit Pandey, Raul B. Rebak, Indranil Roy, Chengjia Shang, Ji Zhang, 2017-03-06 This collection

highlights materials research and innovations for a wide breadth of energy systems and technologies The volume includes papers organized into the following sections Energy and Environmental Issues in Materials Manufacturing and Processing Materials in Clean Power Materials for Coal Based Power Materials for Energy Conversion with Emphasis on SOFCMaterials for Gas TurbinesMaterials for Nuclear EnergyMaterials for Oil and Gas Introduction to Materials for Advanced Energy Systems Colin Tong, 2018-12-12 This first of its kind text enables today s students to understand current and future energy challenges to acquire skills for selecting and using materials and manufacturing processes in the design of energy systems and to develop a cross functional approach to materials mechanics electronics and processes of energy production While taking economic and regulatory aspects into account this textbook provides a comprehensive introduction to the range of materials used for advanced energy systems including fossil nuclear solar bio wind geothermal ocean and hydropower hydrogen and nuclear as well as thermal energy storage and electrochemical storage in fuel cells A separate chapter is devoted to emerging energy harvesting systems Integrated coverage includes the application of scientific and engineering principles to materials that enable different types of energy systems Properties performance modeling fabrication characterization and application of structural functional and hybrid materials are described for each energy system Readers will appreciate the complex relationships among materials selection optimizing design and component operating conditions in each energy system Research and development trends of novel emerging materials for future hybrid energy systems are also considered Each chapter is basically a self contained unit easily enabling instructors to adapt the book for coursework This textbook is suitable for students in science and engineering who seek to obtain a comprehensive understanding of different energy processes and how materials enable energy harvesting conversion and storage In setting forth the latest advances and new frontiers of research the text also serves as a comprehensive reference on energy materials for experienced materials scientists engineers and physicists Includes pedagogical features such as in depth side bars worked out and end of chapter exercises and many references to further reading Provides comprehensive coverage of materials based solutions for major and emerging energy systems Brings together diverse subject matter by integrating Computational Approaches for Chemistry Under Extreme Conditions Nir theory with engaging insights Goldman, 2019-02-18 This book presents recently developed computational approaches for the study of reactive materials under extreme physical and thermodynamic conditions It delves into cutting edge developments in simulation methods for reactive materials including quantum calculations spanning nanometer length scales and picosecond timescales to reactive force fields coarse grained approaches and machine learning methods spanning microns and nanoseconds and beyond These methods are discussed in the context of a broad range of fields including prebiotic chemistry in impacting comets studies of planetary interiors high pressure synthesis of new compounds and detonations of energetic materials. The book presents a pedagogical approach for these state of the art approaches compiled into a single source for the first time Ultimately the

volume aims to make valuable research tools accessible to experimentalists and theoreticians alike for any number of scientific efforts spanning many different types of compounds and reactive conditions **Formal Methods in Architecture** Sara Eloy, David Leite Viana, Franklim Morais, Jorge Vieira Vaz, 2021-01-04 This edited book gathers research studies presented at the 5th International Symposium on Formal Methods in Architecture 5FMA Lisbon 2020 Studies focus on the use of methodologies especially those that have witnessed recent developments that stem from the mathematical and computer sciences and are developed in a collaborative way with architecture and related fields This book constitutes a contribution to the debate and to the introduction of new methodologies and tools in the mentioned fields that derive from the application of formal methods in the creation of new explicit languages for problem solving in architecture and urbanism It adds valuable insight into the development of new practices solving identified societal problems and promoting the digital transformation of institutions in the mentioned fields The primary audience of this book will be from the fields of architecture urban planning civil engineering AEC landscape design computer sciences and mathematics both academicians and Advanced Multifunctional Materials from Fibrous Structures Jiří Militký, Mohanapriya professionals Venkataraman, 2023-10-21 This book highlights some aspects of processing microstructure and properties of materials in fibrous form or from fibers with wide applications for textile oriented and technically oriented advanced products Emphasis is placed on the physical and chemical nature of the processes describing the behavior and properties of the investigated materials The chapters describing the state and expected trends in selected areas summarize not only the published works but also the original results and the critical evaluation and generalization of basic knowledge In addition to the preparation of materials with new effects attention is focused on the development of new testing principles the construction of special devices and metrological aspects Research activities cover all types of fibers with a clear shift toward synthetic and specialty fibers for non clothing applications This is in line with the current development trend in the field of high performance fibers mainly for use as reinforcement in various composite materials and functional fibers for smart textiles The area of fibrous materials covered in this book is indeed very large Compressing the basic available information in a reasonable space was therefore a difficult task The goal in writing this book was to provide a broad area of different results so that the book is suitable for anyone who is generally interested in fibrous materials and their applications for various purposes

Prevention of Hazardous Fires and Explosions V.E. Zarko, V. Weiser, N. Eisenreich, A.A. Vasil'ev, 2012-12-06 Besides its obvious destructive potential military R D also serves to protect human lives equipment and facilities against the effects of weapons Concepts have therefore been developed that improve safety of stationary and mobile facilities against pressure waves thermal radiation and fire Effective fast fire extinguishing equipment has been designed for tank compartments and motors Closed buildings are demolished and landmines are removed with gas and dust explosions Stringent safety requirements have been developed for the production of ammunition and explosives Military and related industries have

accumulated a vast knowledge and sophisticated experience that are very valuable in a variety of civil applications The knowledge is based on theoretical and experimental research work the origin of which sometimes dates back many centuries It has often been classified and therefore has remained unknown to the civilian population until now **Removing Barriers** to Environmental Comfort in the Global South Laura Marín-Restrepo, Alexis Pérez-Fargallo, María Beatriz Piderit-Moreno, Maureen Trebilcock-Kelly, Paulina Wegertseder-Martínez, 2023-05-11 This book describes how comfort energy and climate change in developing countries and vulnerable sectors of the population relate to buildings The building sector is currently facing significant challenges connected to energy consumption energy poverty and climate change effects When studied in developing countries and vulnerable sectors of the population these factors which are commonplace in the tropics and the southern hemisphere are interlinked and share a critical component environmental comfort Although progress has been made in environmental comfort through research and the development of standards and policies at the international level in the Global South where the countries with the highest levels of income inequality are concentrated environmental comfort has its own characteristics and challenges that prevent a clear understanding from the established vision of the Global North This book presents research theories and techniques related to Thermal comfort Indoor air quality Visual comfort and Acoustic comfort and its relationship with energy use and energy efficiency seeking to address different barriers to environmental comfort It shows how to improve the way buildings are designed and operated to promote healthier environmental conditions and more sustainable construction by presenting studies and reflections carried out in the target geographical area the Global South In this way this book contributes to developing the concept of environmental comfort visualising how progress has been made in understanding it from a tropical and southern perspective and posing common challenges The book is intended for engineers architects and researchers of the built environment who are interested in environmental comfort and its influence on energy consumption energy poverty and other related factors in the Global South context It is also a useful resource for decision makers and public policy developers concerned with the indoor comfort of buildings Moreover the book aims to provide guidance for those in developing countries by gathering existing knowledge in the field for the tropics and southern hemisphere climatic and sociocultural contexts allowing us to move forward in this subject with actions and proposed solutions that fit our particular needs **Molecular Spectroscopy of Dynamically Compressed Materials** David S. Moore, 2022-07-04 This book offers historical and state of the art molecular spectroscopy methods and applications in dynamic compression science aimed at the upcoming generation in physical sciences involved in studies of materials at extremes It begins with addressing the motivation for probing shock compressed molecular materials with spectroscopy and then reviews historical developments and the basics of the various spectroscopic methods that have been utilized Introductory chapters are devoted to fundamentals of molecular spectroscopy overviews of dynamic compression technologies and diagnostics used to quantify the shock compression state during spectroscopy experiments

Subsequent chapters describe all the molecular spectroscopic methods used in shock compression research to date including theory experimental details for application to shocked materials and difficulties that can be encountered Each of these chapters also includes a section comparing static compression results. The last chapter offers an outlook for the future which leads the next generation readers to tackling persistent problems **High-Energy Ball Milling** Małgorzata Sopicka-Lizer, 2010-05-24 Mechanochemical processing is a novel and cost effective method of producing a wide range of nanopowders It involves the use of a high energy ball mill to initiate chemical reactions and structural changes High energy ball milling Mechanochemical processing of nanopowders reviews the latest techniques in mechanochemistry and how they can be applied to the synthesis and processing of various high tech materials Part one discusses the basic science of mechanochemistry with chapters on such topics as the mechanism and kinetics of mechanochemical processes kinetic behaviour in mechanochemically induced structural and chemical transformations and materials design through mechanochemical processing Part two reviews mechanochemical treatment of different materials including synthesis of complex ceramic oxides production of intermetallic compound powders synthesis of organic compounds synthesis of metallic ceramic composite powders and activation of covalent bond based materials Part three covers mechanochemical processes in metal powder systems and other applications with coverage of topics such as plating and surface modification using ultrasonic vibrations activated powders as precursors for spark plasma sintering titanium dioxide photocatalyst synthesis by mechanochemical doping and synthesis of materials for lithium ion batteries With its distinguished editor and international team of contributors High energy ball milling Mechanochemical processing of nanopowders is a standard reference for all those involved in the production of ceramic and metallic components using sintering and other powder metallurgy techniques to produce net shape components Examines the latest techniques in mechanochemistry and how they can be applied to the synthesis and processing of various high tech materials Discusses the basic science of mechanochemistry including kinetic behaviour processes and mechanisms and materials design through mechanochemical processing Reviews mechanochemical treatment of different materials including synthesis of ceramic oxides organic compounds and metallic ceramic composite powders Advances in Architecture, Engineering and Technology Federica Rosso, Claudia Fabiani, Hasim Altan, Mourad Amer, 2022-03-17 This book examines a range of subjects with a specific focus on architectural and technological advancements Architecture is the constant innovation in designing for high efficiency in the performance of buildings in terms of planning construction and energy while maintaining creativity in its form Moreover the field of architecture goes hand in hand with that of technology Nowadays engineering technology has to cope with the rapid industrialization and urbanization seen in most countries Furthermore creative design and construction practices are challenging tasks to the architects and engineers to meet the ever growing demands of society Therefore this book on Advances in Engineering Science and Architectural Design is provided to cover a wide range of topics in architecture

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