

Materials Science In Static High Magnetic Fields Advances In Materials Research

This proceedings volume contains a collection of 20 papers from the following symposia held at the 2015 Materials Science and Technology (MS&T '15) meeting: 7th International Symposium on Green and Sustainable Technologies for Materials Manufacturing Processing Materials for Nuclear Applications and Extreme Environments Materials Issues in Nuclear Waste Management in the 21st Century Nanotechnology for Energy, Healthcare and Industry Materials for Processes for CO₂ Capture, Conversion and Sequestration Hybrid Organic – Inorganic Materials for Alternative Energy. Volume 29 of Reviews in Mineralogy provides an updated silica review which focuses on the most recent developments. This book describes the crystal structures and phase transitions of silicic acid and silica-stuffed derivatives; bridges the relationship between the microstructural character of real silicic acid minerals and the behavior of silica in the geological environment; covers Quantum mechanical considerations of the Si-O bond; shows how calculations based upon first-principles theory can explain and predict silica transitions at high temperatures and pressures; covers spectroscopic analyses of silica and how they reveal vibrational behaviors in response to variations in temperature, pressure, and composition and finally details the uses of silica for industrial purposes. Presents the most comprehensive review of the influence of highly intense magnetic fields on the properties of materials of various classes.

Since the 1950s shock compression research contributed greatly to scientific knowledge and industrial technology. As a result, for example, our understanding of meteorite impacts has substantially improved, and shock processes have become standard industrial methods in materials synthesis and processing. Investigations of shock-compressed matter involve physics, electrical engineering, solid mechanics, metallurgy, geophysics and materials science. The description of shock-compressed matter presented here, which is derived from physical and chemical observations, differs significantly from the classical descriptions derived from strictly mechanical characteristics. This volume, with over 900 references, provides an introduction for scientists and engineers interested in the present state of shock compression science.

Opportunities in Protection Materials Science and Technology for Future Army Applications
History of Shock Waves, Explosions and Impact

Los Alamos Science

Metals—Advances in Research and Application: 2012 Edition

Materials Science And Engineering - Proceedings Of The 2nd Annual International Workshop (Iwmse 2016)

Mechanics, Physics, and Chemistry

Armor plays a significant role in the protection of warriors. During the course of history, the introduction of new materials and improvements in the materials already used to construct armor has led to better protection and a reduction in the weight of the armor. But even with such advances in materials, the weight of the armor required to manage threats of ever-increasing destructive capability presents a huge challenge. Opportunities in Protection Materials Science and Technology for Future Army Applications explores the current theoretical and experimental understanding of the key issues surrounding protection materials, identifies the major challenges and technical gaps for developing the future generation of lightweight protection materials, and recommends a path forward for their development. It examines multiscale shockwave energy transfer mechanisms and experimental approaches for their characterization over short timescales, as well as multiscale modeling techniques to predict mechanisms for dissipating energy. The report also considers exemplary threats and design philosophy for the three key applications of armor systems: (1) personnel protection, including body armor and helmets, (2) vehicle

armor, and (3) transparent armor. *Opportunities in Protection Materials Science and Technology for Future Army Applications* recommends that the Department of Defense (DoD) establish a defense initiative for protection materials by design (PMD), with associated funding lines for basic and applied research. The PMD initiative should include a combination of computational, experimental, and materials testing, characterization, and processing research conducted by government, industry, and academia.

Covers the fundamental science of grinding and polishing by examining the chemical and mechanical interactions over many scale lengths *Manufacturing next generation optics has been, and will continue to be, enablers for enhancing the performance of advanced laser, imaging, and spectroscopy systems. This book reexamines the age-old field of optical fabrication from a materials-science perspective, specifically the multiple, complex interactions between the workpiece (optic), slurry, and lap. It also describes novel characterization and fabrication techniques to improve and better understand the optical fabrication process, ultimately leading to higher quality optics with higher yield. Materials Science and Technology of Optical Fabrication is divided into two major parts. The first part describes the phenomena and corresponding process parameters affecting both the grinding and polishing processes during optical fabrication. It then relates them to the critical resulting properties of the optic (surface quality, surface figure, surface roughness, and material removal rate). The second part of the book covers a number of related topics including: developed forensic tools used to increase yield of optics with respect to surface quality (scratch/dig) and fracture loss; novel characterization and fabrication techniques used to understand/quantify the fundamental phenomena described in the first part of the book; novel and recent optical fabrication processes and their connection with the fundamental interactions; and finally, special techniques utilized to fabricate optics with high damage resistance. Focuses on the fundamentals of grinding and polishing, from a materials science viewpoint, by studying the chemical and mechanical interactions/phenomena over many scale lengths between the workpiece, slurry, and lap Explains how these phenomena affect the major characteristics of the optic workpiece—namely surface figure, surface quality, surface roughness, and material removal rate Describes methods to improve the major characteristics of the workpiece as well as improve process yield, such as through fractography and scratch forensics Covers novel characterization and fabrication techniques used to understand and quantify the fundamental phenomena of various aspects of the workpiece or fabrication process Details novel and recent optical fabrication processes and their connection with the fundamental interactions Materials Science and Technology of Optical Fabrication is an excellent guidebook for process engineers, fabrication engineers, manufacturing engineers, optical scientists, and opticians in the optical fabrication industry. It will also be helpful for students studying material science and applied optics/photonics.*

Dynamic Behavior of Materials, Volume 1: Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics, the first volume of eight 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: · General Dynamic Materials Response · Novel Dynamic Testing Techniques · Dynamic Fracture and Failure · Dynamic Behavior of Geomaterials · Dynamic Behavior of Composites and Multifunctional materials · Dynamic Behavior of Low-Impedance materials · Dynamic Modeling and Simulation of Dynamic Behavior of Materials · Quantitative Visualization of Dynamic Behavior of Materials · Shock/Blast Loading of Materials · Interface and Structural Dynamics · Material Response *High-resolution electron microscopy (HREM) has become a most powerful method for investigating the internal structure of materials on an atomic scale of around 0.1 nm. The*

authors clearly explain both the theory and practice of HREM for materials science. In addition to a fundamental formulation of the imaging process of HREM, there is detailed explanation of image simulation indispensable for interpretation of high-resolution images. Essential information on appropriate imaging conditions for observing lattice images and structure images is presented, and methods for extracting structural information from these observations are clearly shown, including examples in advanced materials. Dislocations, interfaces, and surfaces are dealt with, and materials such as composite ceramics, high-Tc superconductors, and quasicrystals are also considered. Included are sections on the latest instruments and techniques, such as the imaging plate and quantitative HREM.

Proceedings of the International Conference on Energy, Environment and Materials Science (EEMS 2015), Guangzhou, P.R. China, August 25-26, 2015

Proceedings of the 2016 International Conference on Mechanics and Materials Science (MMS2016)

An Assessment of the National Institute of Standards and Technology Materials Science and Engineering Laboratory

Scientific and Technical Aerospace Reports

Advances in Material Science, Mechanical Engineering and Manufacturing

Design and Life Assessment Issues

The 2016 International Conference on Mechanics and Materials Science (MMS2016) was held in Guangzhou, China on October 15-16, 2016. Aimed at providing an excellent international academic forum for all the researchers and practitioners, the conference attracted a wide spread participation among all over the universities and research institutes. MMS2016 features unique mixed topics of Mechatronics and Automation, Materials Science and Engineering, Materials Properties, Measuring Methods and Applications. This volume consists of 159 peer-reviewed articles by local and foreign eminent scholars, which cover the frontiers and hot topics in the relevant areas.

The 14th International Conference on Wear of Materials took place in Washington, DC, USA, 30 March - 3 April 2003. These proceedings contain over two-hundred peer reviewed papers containing the best research, technical developments and engineering case studies from around the world. Biomaterials and nano-tribology receive special attention in this collection reflecting the general trends in the field. Further highlights include a focus on the new generation of instrumentation to probe wear at increasingly small scales.

Approximately ninety communications and case studies, a popular format for the academic community have also been included, enabling the inclusion of the most up-to-date research. Over 200 peer-reviewed papers including hot topics such as biomaterials and nano-tribology Keeping you up-to-date with the latest research from leading experts Includes communications and case studies

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Advances in Energy, Environment and Materials Science

Solids Under High-Pressure Shock Compression

Materials Science of Carbides, Nitrides and Borides

Congress Proceedings

Advances in Materials Science for Environmental and Energy

Technologies V

Wear of Materials

A survey of current research on a wide range of carbide, nitride and boride materials, covering the general issues relevant to the development and characterisation of a variety of advanced materials. Topics include structure and electronic properties, modeling, processing, high-temperature chemistry, oxidation and corrosion, mechanical behaviour, manufacturing and applications. The volume complements more specialised books on specific materials as well as more general texts on ceramics or hard materials, presenting a survey of materials research as a key to technological development. After decades of research, the materials are being used in electronics, wear resistant, refractory and other applications, but numerous new applications are possible. Roughly equal numbers of papers cover theoretical and experimental research in the general field of materials science of refractory materials. Audience: Researchers and graduate students in materials science and engineering.

Volume is indexed by Thomson Reuters CPCI-S (WoS). Collection of selected, peer reviewed papers from the 3rd International Conference on Materials Science and Engineering (ICMSE 2014), January 24-26, 2014, Jiujiang, China. The 163 papers are grouped as follows: Chapter 1: Chemical Materials and Technologies; Chapter 2: Composite

Materials and Technologies; Chapter 3: Alloys, Metal Materials and Technologies; Chapter 4: Biomaterials, Natural Materials and Technologies; Chapter 5: Materials Optical, Magnetic and Electrical Properties and Technologies, Films and Devices Applications; Chapter 6: Wireless, Sensors, Network and Communication Technologies, Image Technologies Applications; Chapter 7: Monitoring, Detection and Recognition Technologies; Chapter 8: Control and Guided Systems; Chapter 9: Dynamics and Mechanics of Physical Processes and Behavior in Manufacturing and Materials; Chapter 10: Advanced Technologies in Manufacturing, Mechanical Engineering and Industry, Design, Modeling, Analysis and Simulation; Chapter 11: Power Engineering and Drive Systems; Chapter 12: Automation, Optimization, Algorithms in Manufacturing and Industry, Applications; Chapter 13: Recycling Applications, Environmental Research, Alternative Fuel; Chapter 14: Applied Geological Research

This unique and encyclopedic reference work describes the evolution of the physics of modern shock wave and detonation from the earlier and classical percussion. The history of this complex process is first reviewed in a general survey. Subsequently, the subject is treated in more detail and the book is richly illustrated in the form of a picture gallery. This book is ideal for everyone professionally interested in shock wave phenomena.

In this volume, the shock compression technology of materials is described in parallel with the latest research results and their background. In the past, this type of technology was developed in connection with military techniques by certain particular research organizations. For this reason, researchers of materials in general have had less opportunity to make use of the technology. The conventional technology of shock compression has now been established, and is recognized as being remarkably useful as a means of materials science study. The feasibility of shock compression technology is dealt with in this book, as well as the latest research results for general material scientists. The shock synthesis of ceramics and intermetallic compounds, as well as shock compression behavior, are also described. In contrast to conventional works of this kind, this book describes shock compression studies performed by material scientists.

Silica

Creep and Fracture in High Temperature Components

High-Resolution Electron Microscopy for Materials Science

Ultra-High Performance Concrete and High Performance Construction Materials

Neutrons and Synchrotron Radiation in Engineering Materials Science

Blast Mitigation Strategies in Marine Composite and Sandwich Structures

This is a collection of papers presented at the 2nd International Congress on 3D Materials Science, an event organized by The Minerals, Metals & Materials Society (TMS). The conference provides the premier forum for presentations of current interest and significance to the three-dimensional characterization, visualization, quantitative analysis, modeling, and investigation of structure-property relationships of materials. The papers presented in the collection are divided into six sections: (1) Acquisition and Handling of 3D Data; (2) Microstructure/Property Relationship in 3D: Characterization and Simulation; (3) Microstructure/Property Relationship in 3D: Deformation and Damage; (4) New Experimental Techniques; (5) Analysis at the Nanoscale; and (6) Dynamic Processes.

The International Conference on Energy, Environment and Materials Science (EEMS2015) was held in Guangzhou, China, from August 25 - 26, 2015. EEMS2015 provided a platform for academic scientists, researchers and scholars to exchange and share their experiences and research results within the fields of energy science, energy technology, environmental science, environmental engineering, motivation, automation and electrical engineering, material science and engineering, the discovery or development of energy, and environment and materials science.

ISMSE 2017 Selected, peer reviewed papers from the 2017 International Symposium on Material Science and Engineering (ISMSE 2017), January 13-15, 2017, Kuala Lumpur, Malaysia
This monograph, which is the outcome of the ASI on High Pressure Chemistry, Biochemistry, and Materials Science, illustrates new developments in the field of high pressure science. In fact, for chemists, biochemists, and materials scientists, pressure as an experimental variable represents a tool which provides unique information about systems of materials studied. It is interesting to note how the growth of the high pressure field is also reflected in the content of the recent ASI's dealing with this field. The ASI High Pressure Chemistry held in 1977 was followed by the ASI High Pressure Chemistry and Biochemistry held in 1986, and the coverage of the present ASI also includes applications to materials science. In view of the teaching character of the ASI, it is natural that main contributions to this volume present overviews of the different subfields or applications of high pressure research. In contrast, contributed papers offer more specialized aspects of various high pressure studies. The various contributions to this volume make clear the impressive range of fundamental and applied problems that can be studied by high pressure techniques, and also point towards a major growth of high pressure science and

technology in the near future. This ASI focused mainly on advances achieved in the six years since the previous ASI devoted to the high pressure field. The organization of this volume is as follows.

Applied Environmental Materials Science for Sustainability

Japanese Science and Technology

Neutron Scattering - Applications in Biology, Chemistry, and Materials Science

A Bibliography with Indexes

High Pressure Chemistry, Biochemistry and Materials Science

Mechanical Behaviour of Materials - VI

Integrating very interesting results from the most important R & D project ever made in Germany, this book offers a basic understanding of tribological systems and the latest developments in reduction of wear and energy consumption by tribological measures. This ready reference and handbook provides an analysis of the most important tribosystems using modern test equipment in laboratories and test fields, the latest results in material selection and wear protection by special coatings and surface engineering, as well as with lubrication and lubricants. This result is a quick introduction for mechanical engineers and laboratory technicians who have to monitor and evaluate lubricants, as well as for plant maintenance personnel, engineers and chemists in the automotive and transportation industries and in all fields of mechanical manufacturing industries, researchers in the field of mechanical engineering, chemistry and material sciences.

This book primarily focuses on methodologies to enable marine structures to resist high velocity impact loadings. It is based on invited talks presented at the recent India-USA workshop on "Recent Advances in Blast Mitigation Strategies in Civil and Marine Composite Structures" The book comprises content from top researchers from India and the USA and covers various aspects of the topic, including modeling and simulation, design aspects, experimentation and various challenges. These failure modes significantly reduce the structural integrity of the marine structures unless they are designed to resist such harsh loadings. Understanding the mechanics of these structures under harsh loadings is still an open area of research, and the behavior of these structures is not fully understood. The book highlights efforts to reduce the effects of blast loadings on marine composite structures. Intended for researchers/scientists and practicing engineers, the book focuses not only the design and analysis challenges of marine composite structures under such harsh loading conditions, but also provides new design guidelines.

Significant progress in the science and technology of the

mechanical behaviour of materials has been made in recent years. The greatest strides forward have occurred in the field of advanced materials with high performance, such as ceramics, composite materials, and intermetallic compounds. The Sixth International Conference on Mechanical Behaviour of Materials (ICM-6), taking place in Kyoto, Japan, 29 July - 2 August 1991 addressed these issues. In commemorating the fortieth anniversary of the Japan Society of Materials Science, organised by the Foundation for Advancement of International Science and supported by the Science Council of Japan, the information provided in these proceedings reflects the international nature of the meeting. It provides a valuable account of recent developments and problems in the field of mechanical behaviour of materials.

The Materials Science and Engineering Laboratory (MSEL) of the National Institute of Standards and Technology (NIST) works with industry, standards bodies, universities, and other government laboratories to improve the nation's measurements and standards infrastructure for materials. A panel of experts appointed by the National Research Council (NRC) assessed the four divisions of MSEL, by visiting these divisions and reviewing their activities.

Mechanics and Materials Science

Proceedings of HiPerMat 2020 5th International Symposium on Ultra-High Performance Concrete and High Performance Materials Kassel, March 11-13, 2020

Shock Waves in Materials Science

Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics

Physical Behavior, Geochemistry, and Materials Applications

Materials Science and Technology of Optical Fabrication

The 2nd Annual 2016 International Workshop on Materials Science and Engineering (IWMSE 2016) was held in Guangzhou, Guangdong, China on August 12 - August 14, 2016. The main aim of IWMSE 2016 was to provide a platform for scientists and engineers, to get together to share their research findings, exchange ideas and identify the future directions of R&D in materials science. In this conference, we have received over 272 high-quality papers, however, only 160 articles are included in the proceedings, covering topics such as ceramics and glasses, amorphous materials, nanomaterials and thin layers, soft magnetic materials, biomaterials, polymers, photovoltaic materials, steels, tool materials, composites, as well as functional and smart materials.

Retaining its proven concept, the second edition of this ready reference specifically addresses the need of materials engineers for reliable, detailed information on modern material characterization methods. As such, it provides a systematic overview of the

increasingly important field of characterization of engineering materials with the help of neutrons and synchrotron radiation. The first part introduces readers to the fundamentals of structure-property relationships in materials and the radiation sources suitable for materials characterization. The second part then focuses on such characterization techniques as diffraction and scattering methods, as well as direct imaging and tomography. The third part presents new and emerging methods of materials characterization in the field of 3D characterization techniques like three-dimensional X-ray diffraction microscopy. The fourth and final part is a collection of examples that demonstrate the application of the methods introduced in the first parts to problems in materials science. With thoroughly revised and updated chapters and now containing about 20% new material, this is the must-have, in-depth resource on this highly relevant topic.

Neutron Scattering: Applications in Chemistry, Materials Science and Biology, Volume 49, provides an in-depth overview of the applications of neutron scattering in the fields of physics, materials science, chemistry, biology, the earth sciences, and engineering. The book describes the tremendous advances in instrumental, experimental, and computational techniques over the past quarter-century. Examples include the coming-of-age of neutron reflectivity and spin-echo spectroscopy, the advent of brighter accelerator-based neutron facilities and associated techniques in the United States and Japan over the past decade, and current efforts in Europe to develop long-pulse, ultra-intense spallation neutron sources. It acts as a complement to two earlier volumes in the Experimental Methods in the Physical Science series, Neutron Scattering: Fundamentals (Elsevier 2013) and Neutron Scattering: Magnetic and Quantum Phenomena (Elsevier 2015). As a whole, the set enables researchers to identify aspects of their work where neutron scattering techniques might contribute, conceive the important experiments to be done, assess what is required, write a successful proposal for one of the major facilities around the globe, and perform the experiments under the guidance of the appropriate instrument scientist. Completes a three-volume set, providing extensive coverage on emerging and highly topical applications of neutron scattering Addresses the increasing use of neutrons by chemists, life scientists, material scientists, and condensed-matter physicists Presents up-to-date reviews of recent results, enabling readers to identify new opportunities and plan neutron scattering experiments in their own field

The growing presence of biomass and waste has caused significant changes to the environment. With the ubiquity of these materials, there is an increasing need for proper disposal and reuse of these resources. Applied Environmental Materials Science for Sustainability is a key resource on the latest advancements in environmental materials, including the utilization of biomass and waste for advanced materials. Highlighting innovative studies on renewable resources, green technology, and chemical modification, this book is an ideal reference source for academics, researchers, professionals, and graduate students in the field of environmental and materials sciences

and technologies.

From Fundamentals to Applications

**Proceedings of the 8th Pacific Rim International Conference on
Advanced Materials and Processing (PRICM-8)**

Treatise on Materials Science and Technology

**Tribosystems, Friction, Wear and Surface Engineering, Lubrication
Dynamic Behavior of Materials, Volume 1**

Advanced Materials Science and Technology, ICMST 2010

Volume is indexed by Thomson Reuters CPCI-S (WoS). The objective of this volume is to provide up-to-date information for researchers, educators, engineers, and government officials who are involved in the general area of Materials Science & Technology, mechatronics, robotics, automation, power and sensors. It will serve well in disseminating the latest research results and alternative views concerning the future research directions in these fields.

Collection of selected, peer reviewed papers from the 2013 International Conference on Machinery, Materials Science and Energy Engineering (ICMMSEE 2013), May 18-19, 2013, Jingzhou, Hubei, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 124 papers cover recent research in the field and are grouped as follows: Chapter 1: Machinery Engineering; Chapter 2: Materials Science and Materials Processing; Chapter 3: Energy Engineering and Technologies for Extraction Energy Resources.

With HiPerMat 5 on March 11-13, 2020 the 5th International Symposium on Ultra-High Performance Concrete and High Performance Construction Materials documents the actual state of development of application in the fields of: Material Science and Development, Composite Concrete Materials, Strength and Deformation behaviour of UHPC, Durability and Sustainability of UHPC, Design and Construction with UHPC, Structural Modelling and Optimisation, Lightweight Concrete Structures, High-Precision Manufacturing for Pre-Fabrication, Nanotechnology for Construction Materials, Innovative Applications, Smart Construction Materials, This volume contains the short versions (two pages) of all contributions that have been accepted for publication at HiPerMat 5.

The goal of this book is to present an overview of applications of molecular spectroscopy to investigations in organic and inorganic materials, foodstuffs, biosamples and biomedicine, and novel characterization and quantitation methods. This text is a compilation of selected research articles and reviews covering current efforts in various applications of molecular spectroscopy. Sections 1 and 2 deal, respectively, with spectroscopic studies of inorganic and organic materials. Section 3 provides applications of molecular spectroscopy to biosamples and biomedicine. Section 4 explores spectroscopic

characterization and quantitation of foods and beverages. Lastly, Section 5 presents research on novel spectroscopic methodologies. Overall, this book should be a great source of scientific information for anyone involved in characterization, quantitation, and method development.

Materials Science in Static High Magnetic Fields
Shock Waves in Condensed Matter

High-Performance Construction Materials
A Chronological and Biographical Reference

Symposium on Materials Science and Engineering

Treatise on Materials Science and Technology, Volume 6: Plastic Deformation of Materials covers the fundamental properties and characterization of materials, ranging from simple solids to complex heterophase systems. The book presents articles on the low temperature of deformation of bcc metals and their solid-solution alloys; the cyclic deformation of metals and alloys; and the high-temperature diffusion-controlled creep of some metals and alloys, with particular reference to the various creep mechanisms. The text also includes articles on superplasticity; the fatigue deformation of polymers; the low temperature deformation of crystalline nonmetals; and the recovery and recrystallization during high temperature deformation. Professional scientists and engineers, as well as graduate students in materials science and associated fields will find the book invaluable.

Provides information from around the world on creep in multiple high-temperature metals, alloys, and advanced materials.

PRICM-8 features the most prominent and largest-scale interactions in advanced materials and processing in the Pacific Rim region. The conference is unique in its intrinsic nature and architecture which crosses many traditional discipline and cultural boundaries. This is a comprehensive collection of papers from the 15 symposia presented at this event.

Selected, peer reviewed papers from the 2013 3rd International Conference on Machinery, Materials Science and Engineering Applications (MMSE 2013), June 20-21, 2013, Wuhan, Hubei, China

2013 International Conference on Machinery, Materials Science and Energy Engineering Applications of Molecular Spectroscopy to Current Research in the Chemical and Biological Sciences

Proceedings of the Sixth International Conference, Kyoto, Japan, 29 July - 2 August 1991

Plastic Deformation of Materials

Material Science and Advanced Technologies in Manufacturing

Industrial Tribology