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Computational and Experimental Simulations in Engineering - Hiroshi Okada 2019-11-16

This book gathers the latest advances, innovations, and applications in the field of computational engineering, as presented by leading international researchers and engineers at the 24th International Conference on Computational & Experimental Engineering and Sciences (ICCES), held in Tokyo, Japan on March 25-28, 2019. ICCES covers all aspects of applied sciences and engineering: theoretical, analytical, computational, and experimental studies and solutions of problems in the physical, chemical, biological, mechanical, electrical, and mathematical sciences. As such, the book discusses highly diverse topics, including composites; bioengineering & biomechanics; geotechnical engineering; offshore & arctic engineering; multi-scale & multi-physics fluid engineering; structural integrity & longevity; materials design & simulation; and computer modeling methods in engineering. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Calcium Orthophosphates - Sergey V. Dorozhkin 2012-06-04

Due to a great chemical similarity with the biological calcified tissues, many calcium orthophosphates possess remarkable biocompatibility and bioactivity. Materials scientists use this property extensively to construct artificial bone grafts that are either entirely made of or only surface-coated with the biologically relevant calcium orthophosphates. Porous scaffolds made of calcium orthophosphates are very promising tools for tissue engineering applications. A comprehensive overview of calcium orthophosphates, this book highlights their importance and biomedical uses.

Magnetic Properties of Metals and Alloys - Richard M. Bozorth 2012-04-01

Additional Authors Are R. W. DeBlois, H. J. Williams, R. C. Sherwood, And Many Others.

PbZn 2020: 9th International Symposium on Lead and Zinc Processing - A. Siegmund 2020-01-24

Established in 1970, the PbZn symposium series is considered the leading international technical forum for the lead and zinc processing

industries. The PbZn 2020 volume addresses all aspects of current processing technologies for primary and secondary lead and zinc, as well as emerging technologies for both metals.

Carbon Nanotubes for Biomedical Applications - Rüdiger Klingeler
2011-02-09

This book explores the potential of multi-functional carbon nanotubes for biomedical applications. It combines contributions from chemistry, physics, biology, engineering, and medicine. The complete overview of the state-of-the-art addresses different synthesis and biofunctionalisation routes and shows the structural and magnetic properties of nanotubes relevant to biomedical applications. Particular emphasis is put on the interaction of carbon nanotubes with biological environments, i.e. toxicity, biocompatibility, cellular uptake, intracellular distribution, interaction with the immune system and environmental impact. The insertion of NMR-active substances allows diagnostic usage as markers and sensors, e.g. for imaging and contactless local temperature sensing. The potential of nanotubes for therapeutic applications is highlighted by studies on chemotherapeutic drug filling and release, targeting and magnetic hyperthermia studies for anti-cancer treatment at the cellular level.

Bone Tissue Engineering - Jeffrey O. Hollinger 2004-10-14

Focusing on bone biology, Bone Tissue Engineering integrates basic sciences with tissue engineering. It includes contributions from world-renowned researchers and clinicians who discuss key topics such as different models and approaches to bone tissue engineering, as well as exciting clinical applications for patients. Divided into four sections, *t*
Methods in Lignin Chemistry - Stephen Y. Lin 2012-12-06

An up-to-date compilation of the theoretical background and practical procedures involved in lignin characterization. Whenever possible, the procedures are presented in sufficient detail to enable the reader to perform the analysis solely by following the step-by-step description. The advantages and limitations of individual methods are discussed and, more importantly, illustrated by typical analytical data in comparison to results obtained from other methods. This handbook serves the need of

researchers and other professionals in academia, the pulp and paper industry as well as allied industries. It is equally useful for those with no previous experience in lignin or lignocellulosics.

Synthesis of Organometallic Compounds - Sanshiro Komiya
1997-05-28

Inorganic Chemistry This series reflects the breadth of modern research in inorganic chemistry and fulfils the need for advanced texts. The series covers the whole range of inorganic and physical chemistry, solid state chemistry, coordination chemistry, main group chemistry and bioinorganic chemistry. *Synthesis of Organometallic Compounds A Practical Guide* Edited by Sanshiro Komiya Tokyo University of Agriculture and Technology, Japan. This book describes the concepts of organometallic chemistry and provides an overview of the chemistry of each metal including the synthesis and handling of its important organometallic compounds. *Synthesis of Organometallic Compounds: A Practical Guide* provides: * an excellent introduction to organometallic synthesis * detailed synthetic protocols for the most important organometallic syntheses * an overview of the reactivity, applications and versatility of organometallic compounds * a survey of metals and their organometallic derivatives The purpose of this book is to serve as a practical guide to understanding the general concepts of organometallics for graduate students and scientists who are not necessarily specialists in organometallic chemistry.

Mechanical Properties of Metallic Composites - Shojiro Ochiai
1993-12-17

Provides coverage of dispersion-hardened and fibre-reinforced alloys, addressing principal mechanisms, processing and applications. Mechanical behaviour based on dislocation theory and elastic-plastic mechanics is dealt with and data on advanced composites are provided.

Iron Age - 1931-07

Update on Oesophageal Atresia-Tracheoesophageal Fistula - Usha Krishnan 2017-10-06

Oesophageal atresia-tracheoesophageal fistula (OA-TOF) is a congenital

digestive malformation. With improvements in surgical techniques and perioperative care, survival rates now exceed 90% and OA-TOF is no more just a neonatal surgical problem, and the focus has now shifted from mortality to morbidity with focus on long-term survival and quality of life issues. The primary complications experienced by these patients include gastroesophageal reflux, peptic and eosinophilic esophagitis, anastomotic stricture, esophageal dysmotility, abnormal gastric function, feeding difficulties and respiratory disorders including tracheomalacia and "cyanotic spells". Concerns in adults include oesophageal adenocarcinoma and epidermoid carcinoma which have been recently reported. This highlights the need for careful multidisciplinary follow up not only in childhood but also after transition to adulthood. Data regarding long-term outcomes and follow-ups are limited for patients following OA-TOF repair. The determination of the risk factors for the complicated evolution following OA-TOF repair may positively impact long-term prognoses. This e-book contains review articles and position paper on all aspects of management of this condition. The material presented in the following articles is primarily based on the presentations by world experts during the recent Fourth International Conference on Oesophageal Atresia held in Sydney in 2016.

Dictionary of Metals - Harold M. Cobb 2012

Rare Metal Technology 2020 - Gisele Azimi 2020-01-20

This collection presents papers from a symposium on extraction of rare metals as well as rare extraction processing techniques used in metal production. Rare metals include strategic metals that are in increasing demand and subject to supply risks. Metals represented include neodymium, dysprosium, scandium and others; platinum group metals including platinum, palladium, iridium, and others; battery related metals including lithium, cobalt, nickel, and aluminum; electronics-related materials including copper and gold; and refractory metals including titanium, niobium, zirconium, and hafnium. Other critical materials such as gallium, germanium, indium and silicon are also included. Papers cover various processing techniques, including but not

limited to hydrometallurgy (solvent extraction, ion exchange, precipitation, and crystallization), electrometallurgy (electrorefining and electrowinning), pyrometallurgy, and aerometallurgy (supercritical fluid extraction). Contributions are focused on primary production as well as secondary production through urban mining and recycling to enable a circular economy. A useful resource for all involved in commodity metal production, irrespective of the major metal Provides knowledge of cross-application among industries Extraction and processing of rare metals that are the main building block of many emerging critical technologies have been receiving significant attention in recent years. The technologies that rely on critical metals are prominent worldwide, and finding a way to extract and supply them effectively is highly desirable and beneficial.

The Journal of the Iron and Steel Institute - Iron and Steel Institute 1965
Includes the institute's Proceedings.

Songs of Life - George Reginald Margetson 1910

High Performance Computing Systems and Applications - Nikitas J. Dimopoulos 2002

High Performance Computing Systems and Applications contains a selection of fully refereed papers presented at the 14th International Conference on High Performance Computing Systems and Applications held in Victoria, Canada, in June 2000. This book presents the latest research in HPC Systems and Applications, including distributed systems and architecture, numerical methods and simulation, network algorithms and protocols, computer architecture, distributed memory, and parallel algorithms. It also covers such topics as applications in astrophysics and space physics, cluster computing, numerical simulations for fluid dynamics, electromagnetics and crystal growth, networks and the Grid, and biology and Monte Carlo techniques. High Performance Computing Systems and Applications is suitable as a secondary text for graduate level courses, and as a reference for researchers and practitioners in industry.

F & S Index of Corporations and Industries - 1966

Electrical Installations in Hazardous Areas - Alan McMillan
1998-05-22

The Health and Safety at Work Act, together with current and impending EU Directives, obliges those responsible for hazardous areas, those who work in such areas and those who supply equipment for use in such areas to demonstrate that they have taken all necessary and reasonable steps to prevent fires and explosions. This book addresses these issues, seeks to explain the ever increasing complexity of standards and codes pertaining to this field and describes their method of application and the application of other procedures to assist those involved. The only book which provides comprehensive cover of this vital area Written by a leading Internationally recognised UK authority in this field

Renewable Hydrogen Technologies - Luis M Gandia 2013-05-03

The fields covered by the hydrogen energy topic have grown rapidly, and now it has become clearly multidisciplinary. In addition to production, hydrogen purification and especially storage are key challenges that could limit the use of hydrogen fuel. In this book, the purification of hydrogen with membrane technology and its storage in "solid" form using new hydrides and carbon materials are addressed. Other novelties of this volume include the power conditioning of water electrolyzers, the integration in the electric grid of renewable hydrogen systems and the future role of microreactors and micro-process engineering in hydrogen technology as well as the potential of computational fluid dynamics to hydrogen equipment design and the assessment of safety issues. Finally, and being aware that transportation will likely constitute the first commercial application of hydrogen fuel, two chapters are devoted to the recent advances in hydrogen fuel cells and hydrogen-fueled internal combustion engines for transport vehicles. Hydrogen from water and biomass considered Holistic approach to the topic of renewable hydrogen production Power conditioning of water electrolyzers and integration of renewable hydrogen energy systems considered Subjects not included in previous books on hydrogen energy Micro process technology considered Subject not included in previous books on hydrogen energy Applications of CFD considered Subject not included in previous books on hydrogen

energy Fundamental aspects will not be discussed in detail consciously as they are suitably addressed in previous books Emphasis on technological advancements Chapters written by recognized experts Up-to date approach to the subjects and relevant bibliographic references

Na-ion Batteries - 2021-05-11

This book covers both the fundamental and applied aspects of advanced Na-ion batteries (NIB) which have proven to be a potential challenger to Li-ion batteries. Both the chemistry and design of positive and negative electrode materials are examined. In NIB, the electrolyte is also a crucial part of the batteries and the recent research, showing a possible alternative to classical electrolytes - with the development of ionic liquid-based electrolytes - is also explored. Cycling performance in NIB is also strongly associated with the quality of the electrode-electrolyte interface, where electrolyte degradation takes place; thus, Na-ion Batteries details the recent achievements in furthering knowledge of this interface. Finally, as the ultimate goal is commercialization of this new electrical storage technology, the last chapters are dedicated to the industrial point of view, given by two startup companies, who developed two different NIB chemistries for complementary applications and markets.

Magnesium Technology 2020 - J. Brian Jordon 2020-01-22

The Magnesium Technology Symposium, the event on which this collection is based, is one of the largest yearly gatherings of magnesium specialists in the world. Papers represent all aspects of the field, ranging from primary production to applications to recycling. Moreover, papers explore everything from basic research findings to industrialization. Magnesium Technology 2020 covers a broad spectrum of current topics, including alloys and their properties; cast products and processing; wrought products and processing; forming, joining, and machining; corrosion and surface finishing; and structural applications. In addition, there is coverage of new and emerging applications.

Interventions in Pulmonary Medicine - Jose Pablo Díaz-Jimenez
2013-01-29

Interventions in Pulmonary Medicine is an important new volume that addresses all areas of interventional pulmonology, a minimally invasive

endoscopic way to diagnose and treat lung disorders. This volume contains dedicated chapters that outline the many issues related to lung cancer, both in early and advanced stages, from diagnosis to personalized treatment. It also covers bronchoscopic therapeutic options to benign conditions that are highly prevalent, such as COPD and asthma. Techniques described in this volume are: laser therapy, argon plasma coagulation therapy, cryotherapy, brachytherapy, placement of intrapleural drainage systems, endoscopic treatment of emphysema, stents in the airway, and thermoplasty for bronchial asthma. Diagnostic procedures that are covered are: medical thoracoscopy, flexible and rigid bronchoscopy, endobronchial ultrasound, electromagnetical navigation, and trends in personalized treatment for lung cancer and other benign lung conditions. Chapters are written by experts and the developers of the techniques that are currently considered gold standard. Evidence-based reviews are presented for all topics and indications, and contraindications are discussed. Interventions in Pulmonary Medicine is a must have for pulmonologists, endoscopists, pulmonary oncologists, ENT physicians, thoracic surgeons, anesthesiologists, and intensive care specialists and their teams.

Light Metal Alloys Applications - Waldemar Alfredo Monteiro
2014-06-11

Lightweight alloys have become of great importance in engineering for construction of transportation equipment. At present, the metals that serve as the base of the principal light alloys are aluminum and magnesium. One of the most important lightweight alloys are the aluminum alloys in use for several applications (structural components wrought aluminum alloys, parts and plates). However, some casting parts that have low cost of production play important role in aircraft parts. Magnesium and its alloys are among the lightest of all metals and the sixth most abundant metal on earth. Magnesium is ductile and the most machinable of all metals. Many of these light weight alloys have appropriately high strength to warrant their use for structural purposes, and as a result of their use, the total weight of transportation equipment has been considerably decreased.

THERMEC 2018 - R. Shabadi 2018-12-26

This book presents the proceedings of the THERMEC 2018: 10th International Conference on Processing and Manufacturing of Advanced Materials, which took place between July 09 and July 13, 2018 in Paris, France, under the co-sponsorship of Universite de Lille, MINES ParisTech, PSL and Universite de Tours, France. The presented book will be useful for many researchers and engineers/technologists working in different aspects of processing and fabrication of materials, structure/property evaluation and applications of both ferrous and nonferrous materials including biomaterials, smart materials as well as the advanced measurement techniques in the materials science.

Advances in Mechanical Engineering - Vilas R. Kalamkar 2020-06-29

This book presents select peer-reviewed proceedings of the International Conference on Advances in Mechanical Engineering (ICAME 2020). The contents cover latest research in several areas such as advanced energy sources, automation, mechatronics and robotics, automobiles, biomedical engineering, CAD/CAM, CFD, advanced engineering materials, mechanical design, heat and mass transfer, manufacturing and production processes, tribology and wear, surface engineering, ergonomics and human factors, artificial intelligence, and supply chain management. The book brings together advancements happening in the different domains of mechanical engineering, and hence, this will be useful for students and researchers working in mechanical engineering.

Recycling of Magnesium - André Ditze 2008

Concise Metals Engineering Data Book - Joseph R. Davis 1997

Magnesium Alloys and Technologies - Karl U. Kainer 2006-03-06

The need for light-weight materials, especially in the automobile industry, created renewed interest in innovative applications of magnesium materials. This demand has resulted in increased research and development activity in companies and research institutes in order to achieve an improved property profile and better choice of alloy systems. Here, development trends and application potential in different

fields like the automotive industry and communication technology are discussed in an interdisciplinary framework.

Transactions - Iron and Steel Institute 1965

Propellants and Explosives - Naminosuke Kubota 2015-04-23

This third edition of the classic on the thermochemical aspects of the combustion of propellants and explosives is completely revised and updated and now includes a section on green propellants and offers an up-to-date view of the thermochemical aspects of combustion and corresponding applications. Clearly structured, the first half of the book presents an introduction to pyrodynamics, describing fundamental aspects of the combustion of energetic materials, while the second part highlights applications of energetic materials, such as propellants, explosives and pyrolants, with a focus on the phenomena occurring in rocket motors. Finally, an appendix gives a brief overview of the fundamentals of aerodynamics and heat transfer, which is a prerequisite for the study of pyrodynamics. A detailed reference for readers interested in rocketry or explosives technology.

Exhausting Dance - Andre Lepecki 2006-07-13

The only scholarly book in English dedicated to recent European contemporary dance, *Exhausting Dance: Performance and the Politics of Movement* examines the work of key contemporary choreographers who have transformed the dance scene since the early 1990s in Europe and the US. Through their vivid and explicit dialogue with performance art, visual arts and critical theory from the past thirty years, this new generation of choreographers challenge our understanding of dance by exhausting the concept of movement. Their work demands to be read as performed extensions of the radical politics implied in performance art, in post-structuralist and critical theory, in post-colonial theory, and in critical race studies. In this far-ranging and exceptional study, Andre Lepecki brilliantly analyzes the work of the choreographers: * Jerome Bel (France) * Juan Dominguez (Spain) * Trisha Brown (US) * La Ribot (Spain) * Xavier Le Roy (France-Germany) * Vera Mantero (Portugal) and visual and performance artists: * Bruce Nauman (US) * William Pope.L

(US). This book offers a significant and radical revision of the way we think about dance, arguing for the necessity of a renewed engagement between dance studies and experimental artistic and philosophical practices.

Magnesium Technology - Horst E. Friedrich 2006

In this book the authors present the current state of both research and technological application of magnesium. In particular, casting and wrought alloys are presented in Chapter 5, followed by a large chapter dedicated to fabrication methods. Corrosion and Protection are treated in Chapter 7. Chapter 8 discusses Engineering Requirements, Strategies and Examples for automobiles in Europe, USA, Asia and Pacific and also for Aerospace and Consumer Articles. Chapter 10 is dedicated to recycling. The experience of authors from seven countries has been combined to produce this book. The book addresses materials researchers as well as design engineers. TOC:Introduction.- History.- Production Technologies.- Physical Metallurgy.- Melting, Alloying and Refining.- Alloys of Practical Importance.- Fabrication Methods.- Corrosion and Surface Protection.- Engineering Requirements, Strategies and Examples.- Recycling.- Data Sheet.

Taking an Exposure History - Arthur L. Frank 2001

Toxicological Profile for Selenium - 2003

Multinary Alloys Based on III-V Semiconductors - Vasyl Tomashyk 2018-12-07

III-V semiconductors have attracted considerable attention due to their applications in the fabrication of electronic and optoelectronic devices as light emitting diodes and solar cells. The electrical properties of these semiconductors can also be tuned by adding impurity atoms. Because of their wide application in various devices, the search for new semiconductor materials and the improvement of existing materials is an important field of study. This book covers all known information about phase relations in multinary systems based on III-V semiconductors, providing the first systematic account of phase equilibria in multinary

systems based on III-V semiconductors and making research originally published in Russian accessible to the wider scientific community. This book will be of interest to undergraduate and graduate students studying materials science, solid state chemistry, and engineering. It will also be relevant for researchers at industrial and national laboratories, in addition to phase diagram researchers, inorganic chemists, and solid state physicists. Features: Provides up-to-date experimental and theoretical information Allows readers to synthesize semiconducting materials with predetermined properties Delivers a critical evaluation of many industrially important systems presented in the form of two-dimensional sections for the condensed phases

Minerals as Advanced Materials II - S V Krivovichev 2011-12-01

This book is a collection of papers that are devoted to various aspects of interactions between mineralogy and material sciences. It will include reviews, perspective papers and original research papers on mineral nanostructures, biomineralization, micro- and nanoporous mineral phases as functional materials, physical and optical properties of minerals, etc. Many important materials that dominate modern technological development were known to mineralogists for hundreds of years, though their properties were not fully recognized. Mineralogy, on the other hand, needs new impacts for the further development in the line of modern scientific achievements such as bio- and nanotechnologies as well as by the understanding of a deep role that information plays in the formation of natural structures and definition of natural processes. It is the idea of this series of books to provide an arena for interdisciplinary discussion on minerals as advanced materials.

Modern Heterogeneous Oxidation Catalysis - Noritaka Mizuno 2009-11-18

Filling a gap in the current literature, this comprehensive reference presents all important catalyst classes, including metal oxides, polyoxometalates, and zeolites. Readers will find here everything they need to know -- from structure design to characterization, and from immobilization to industrial processes. A true must-have for anyone working in this key technology.

Japanese Technical Abstracts - 1986

Fiber Fracture - M. Elices 2002-11-15

The idea for this book came out of the EURESCO Conference on High Performance Fibers: Euroconference on Fiber Fracture in 2000. Many of the books that are currently available look at different aspects of fiber processing, properties, or applications, but none are focussed on the fracture behaviour of fibers. This book presents the mechanisms and models of fiber fracture currently available for both natural and synthetic fibers, and it is expected that increasingly there will be cross fertilization between the fields, opening new frontiers in academic research and more competitive products for industry. It covers the following areas of fiber fracture: ceramic fibers; glass fibers; carbon fibers; metallic fibers and thin wires; polymeric fibers; and carbon nanotubes.

Particle Detectors - Hermann Kolanoski 2020-06-30

This book describes the fundamentals of particle detectors as well as their applications. Detector development is an important part of nuclear, particle and astroparticle physics, and through its applications in radiation imaging, it paves the way for advancements in the biomedical and materials sciences. Knowledge in detector physics is one of the required skills of an experimental physicist in these fields. The breadth of knowledge required for detector development comprises many areas of physics and technology, starting from interactions of particles with matter, gas- and solid-state physics, over charge transport and signal development, to elements of microelectronics. The book's aim is to describe the fundamentals of detectors and their different variants and implementations as clearly as possible and as deeply as needed for a thorough understanding. While this comprehensive opus contains all the materials taught in experimental particle physics lectures or modules addressing detector physics at the Master's level, it also goes well beyond these basic requirements. This is an essential text for students who want to deepen their knowledge in this field. It is also a highly useful guide for lecturers and scientists looking for a starting point for detector development work.