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Handbook of Functionalized Nanomaterials for Industrial Applications
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Green Technologies to Improve the Environment on Earth
The Transfer of National Nanotechnology Initiative Research Outcomes for Commercial and Public Benefit
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The Industrial Electronics Handbook - Five Volume Set
Nuclear Industry
Magnesium Technology 2017
Engineering Science
Resources in Education
Das englischsprachige, weltweit anerkannte Standardwerk zur Werkstoffauswahl - als neuer Buchtyp speziell für die Bedürfnisse deutschsprachiger Leser angepasst! Der Zusatznutzen, den dieses Buch bietet ist das Lesen und Lernen im englischen Original zu erleichtern und gleichzeitig in die spezielle Fachterminologie einzuführen, und zwar durch: - Übersetzungshilfen in der Randspalte zur Fachterminologie und zu schwierigen normalsprachlichen Ausdrücken - Ein zweisprachiges Fachwörterbuch zum raschen Nachschlagen
The aim of this book is to compile some of the green technologies applied to improve the environment on Earth. The success of these technologies is built from humility; from this ethical principle, the concept of honest broker is defined in this work. Some of the biggest environmental problems, such as soil pollution by heavy metals and pollution from the mining industry and massive coal plants, are also addressed. Additional subjects depicted here include geothermal energy, plasma technology, and the correct use of electric vehicles, and demonstrate a promising scenario to diminish greenhouse gases. Likewise, caring for wildlife is essential; the correct use of certain technologies depicted here can contribute to their conservation.
Includes Part 1, Number 2: Books and Pamphlets, Including Serials and Contributions to Periodicals (July - December)
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 2017 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; ecology; and structural applications. In addition, there is coverage of new and emerging applications.
Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.
The mangrove, seagrass and coral reef ecosystems are of paramount ecological importance but have already undergone great degradation, which is advancing at an alarming rate. If present trends continue, the natural resource basis of the economy and ecology of tropical coastal regions will soon be ruined. This was the unanimous conclusion of the 110 scientists from 23 countries who gathered in Mombasa, Kenya, for a Symposium on the ecology of these ecosystems. Mangrove forest systems yield large amounts of fish, crabs, prawns and oysters. They are also valuable sources of fuelwood, timber, tannin and other natural products. Their non-marketable value is of equal importance: stabilization of the coastline, an indispensable nursery ground for numerous marine species with commercial value, a natural filter maintaining the clarity of nearshore water, a home for resident and migratory birds and other wildlife. Many of the true mangrove flora and fauna are now endangered by the clearing of the mangroves. It has been shown that in many countries between 25 and 100% of the mangrove forest has been destroyed already in the last twenty years. The international scientific assembly concluded that much can be done to stop the degradation of these damaged ecosystems and to rehabilitate them. But new techniques must be found to use them on a sustainable basis for long-term economic return and for the well-being of coastal human settlements and a healthy environment.
Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.
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. Containing information in a user-friendly format, this directory sets out to help the distance learner make an informed career choice, and look up the correct information on where and what to

study. Includes Publications received in terms of Copyright act no. 9 of 1916. Discover the most cutting-edge developments in the study of graphdiyne from a pioneer of the field In Graphdiyne: Fundamentals and Applications in Renewable Energy and Electronics, accomplished chemist Dr. Yuliang Li delivers a practical and insightful compilation of theoretical and experimental developments in the study of graphdiyne. Of interest to both academics and industrial researchers in the fields of nanoscience, organic chemistry, carbon science, and renewable energies, the book systematically summarizes recent research into the exciting new material. Discover information about the properties of graphdiyne through theoretical simulations and experimental characterizations, as well as the development of graphdiyne with appropriate preparation technology. Learn to create new graphdiyne-based materials and better understand its intrinsic properties. Find out about synthetic methodologies, the controlled growth of aggregated state structures, and structural characterization. In addition to demonstrating the interdisciplinary potential and relevance of graphdiyne, the book also offers readers: A thorough introduction to basic structure and band gap engineering, including molecular and electronic structure, mechanical properties, and the layers structure of bulk graphdiyne Explorations of Graphdiyne synthesis and characterization, including films, nanotube arrays and nanowires, nanowalls, and nanosheets, as well as characterization methods Discussions of the functionalization of graphdiyne, including heteroatom doping, metal decoration, and absorption of guest molecules Rigorous treatments of Graphdiyne-based materials in catalytic applications, including photo- and electrocatalysts Perfect for organic chemists, electronics engineers, materials scientists, and physicists, Graphdiyne: Fundamentals and Applications in Renewable Energy and Electronics will also find its place on the bookshelves of surface and solid-state chemists, electrochemists, and catalytic chemists seeking a one-stop reference on this rising-star carbon material. Explore green catalytic reactions with this reference from a renowned leader in the field Green reactions—like photo-, photoelectro-, and electro-catalytic reactions—offer viable technologies to solve difficult problems without significant damage to the environment. In particular, some gas-involved reactions are especially useful in the creation of liquid fuels and cost-effective products. In Photo- and Electro-Catalytic Processes: Water Splitting, N₂ Fixing, CO₂ Reduction, award-winning researcher Jianmin Ma delivers a comprehensive overview of photo-, electro-, and photoelectron-catalysts in a variety of processes, including O₂ reduction, CO₂ reduction, N₂ reduction, H₂ production, water oxidation, oxygen evolution, and hydrogen evolution. The book offers detailed information on the underlying mechanisms, costs, and synthetic methods of catalysts. Filled with authoritative and critical information on green catalytic processes that promise to answer many of our most pressing energy and environmental questions, this book also includes: Thorough introductions to electrocatalytic oxygen reduction and evolution reactions, as well as electrocatalytic hydrogen evolution reactions Comprehensive explorations of electrocatalytic water splitting, CO₂ reduction, and N₂ reduction Practical discussions of photoelectrocatalytic H₂ production, water splitting, and CO₂ reduction In-depth examinations of photoelectrochemical oxygen evolution and nitrogen reduction Perfect for catalytic chemists and photochemists, Photo- and Electro-Catalytic Processes: Water Splitting, N₂ Fixing, CO₂ Reduction also belongs in the libraries of materials scientists and inorganic chemists seeking a one-stop resource on the novel aspects of photo-, electro-, and photoelectro-catalytic reactions. Functionalized nanomaterials have extremely useful properties, which can outperform their conventional counterparts because of their superior chemical, physical, and mechanical properties and exceptional formability. They are being used for the development and innovation in a range of industrial sectors. However, the use of functionalized nanomaterials is still in its infancy in many industrial settings. Functionalized nanomaterials have the potential to create cheaper and more effective consumer products and industrial processes. However, they also could have adverse effects on the environment, human health, and safety, and their sustainability is questionable, if used incorrectly. This book discusses the opportunities and challenges of using functionalized nanomaterials in a variety of major industrial sectors. Handbook of Functionalized Nanomaterials for Industrial Applications provides a concise summary of the major applications of functionalized nanomaterials in industry today. It covers the enhancements in industrial techniques and processes, due to functionalized nanomaterials, showing how they substantially improve the performance of existing procedures, and how they can deliver exciting consumer products more cheaply. Emphasis is given to greener approaches, leading to more sustainable products and devices. The legal, economical, and toxicity aspects of functionalized nanomaterials are also discussed in detail. Highlights established industrial applications of functionalized nanomaterials and discusses their future potential for a range of industrial sectors Discusses how functionalized nanomaterials are being used to create new types of commercial products and devices Assesses the challenges of using functionalized nanomaterials in industry, setting out major safety and regulatory challenges The Industrial Electronics Handbook, Second Edition combines traditional and newer, more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high-power applications. Embracing the broad technological scope of the field, this collection explores fundamental areas, including analog and digital circuits, electronics, electromagnetic machines, signal processing, and industrial control and communications systems. It also facilitates the use of intelligent systems—such as neural networks, fuzzy systems, and evolutionary methods—in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components. Enhancing its value, this fully updated collection presents research and global trends as published in the IEEE Transactions on Industrial Electronics Journal, one of the largest and most respected publications in the field. Fundamentals of Industrial Electronics covers the essential areas that form the basis for the field. This volume presents

the basic knowledge that can be applied to the other sections of the handbook. Topics covered include: Circuits and signals Devices Digital circuits Digital and analog signal processing Electromagnetics Other volumes in the set: Power Electronics and Motor Drives Control and Mechatronics Industrial Communication Systems Intelligent Systems Industrial electronics systems govern so many different functions that vary in complexity-from the operation of relatively simple applications, such as electric motors, to that of more complicated machines and systems, including robots and entire fabrication processes. The Industrial Electronics Handbook, Second Edition combines traditional and new Vols. for 1975-include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes. Due to their unique porous properties, zeolites (also referred to as molecular sieves) are used in a variety of applications - major uses are in petrochemical cracking, ion-exchange (water softening and purification), and in the separation and removal of gases and solvents. Molecular Sieves: From Basic Research to Industrial Applications, Volume 158 A,B presents over 265 worldwide contributions on the latest developments in zeolitic research. Readers will find this book, which is divided into five sections: Synthesis, Characterization, Adsorption, Catalysis, and Novel applications, ideal for staying up to date on current research on porous materials. * Comprehensive overview of current research on porous materials * Contains experimental as well as theoretical input, reflecting the increasing overlap between theory and experiment * Contributions from the world's leading authorities
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