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Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials - Munmaya Mishra 2017-08-16
The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11-volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia. The carefully culled content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print. A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials. Acknowledging the evolving nature of the field, the encyclopedia also features newly added content in areas such as tissue engineering, tissue repair and reconstruction, and biomimetic materials.
Subsea Pipelines and Risers - Yong Bai 2005-12-05
• Updated edition of a best-selling title • Author brings 25 years experience to the work • Addresses the key issues of economy and environment Marine pipelines for the transportation of oil and gas have become a safe and reliable way to exploit the valuable resources below the world’s seas and oceans. The design of these pipelines is a relatively new technology and continues to evolve in its quest to reduce costs and minimise the effect on the environment. With over 25years experience, Professor Yong Bai has been able to assimilate the essence of the applied mechanics aspects of offshore pipeline system design in a form of value to students and designers alike. It represents an excellent source of up to date practices and knowledge to help equip those who wish to be part of the exciting future of this industry.
Odours in Wastewater Treatment - Richard M. Stuetz 2001-03-01
Wastewater treatment works have the potential to generate unpleasant odours, which can results in annoyance and consequently have a detrimental effect on a local population. As a result 'odour control and prevention' has become an important consideration both in the management of existing facilities and in the design and gaining of planning consent for new works. Odours in Wastewater Treatment provides readers with a detailed discussion on the basic principles involved in the formation of volatile compounds in wastewater treatment. Accounts are given of recent developments in the sampling and measurement of odours, practical examples in the prediction and

dispersion of odorous emissions are offered and an overview of the technologies currently used to contain and treat odorous compounds presented. Contents Introduction Odours associated with wastewater treatment Odour sampling and measurement Assessment and prediction of nuisance odours Odour control and treatment

Dictionary Catalog of the Department Library - United States. Department of the Interior. Library 1967

Official Gazette of the United States Patent and Trademark Office - United States. Patent and Trademark Office 2001

Japanese Periodicals Index - 1963

Fossil Energy Update - 1983

Water Power - 1951

Applied Materials Science - Deborah D. L. Chung 2001-06-13
Materials are the foundation of technology. As such, most universities provide engineering undergraduates with the fundamental concepts of materials science, including crystal structures, imperfections, phase diagrams, materials processing, and materials properties. Few, however, offer the practical, applications-oriented background that their stud

Engineering News-record - 1951

Nanocatalysis - Vivek Polshettiwar 2013-09-06
Exhibiting both homogeneous and heterogeneous catalytic properties,nanocatalysts allow for rapid and selective chemicaltransformations, with the benefits of excellent product yield andease of catalyst separation and recovery. This book reviews thecatalytic performance and the synthesis and characterization ofnanocatalysts, examining the current state of the art and pointingthe way towards new avenues of research. Moreover, the authorsdiscuss new and emerging applications of nanocatalysts andnanocatalysis, from pharmaceuticals to fine chemicals to renewableenergy to biotransformations. Nanocatalysis features contributions from leadingresearch groups around the world. These contributions reflect athorough review of the current literature as well as theauthors' first-hand experience designing and synthesizingnanocatalysts and developing new applications for them. Thebook's nineteen chapters offer a broad perspective,covering: Nanocatalysis for carbon-carbon and carbon-heteroatom couplingreactions Nanocatalysis for various organic transformations in finechemical synthesis Nanocatalysis for oxidation, hydrogenation, and other relatedreactions Nanomaterial-based photocatalysis and biocatalysis Nanocatalysts to produce non-conventional energy such ashydrogen and biofuels Nanocatalysts and nano-biocatalysts in the chemicalindustry Readers will also learn about the latest spectroscopic andmicroscopy tools used in advanced characterization methods thatshed new light on nanocatalysts and nanocatalysis. Moreover, theauthors offer expert advice to help readers develop strategies toimprove catalytic performance. Summarizing and reviewing all the most important advances innanocatalysis over the last two decades, this book explains themany advantages of nanocatalysts over conventional homogeneous andheterogeneous catalysts, providing the information and guidanceneeded for designing green, sustainable catalytic processes.

Alloys Index - 1988

Handbook of Thermoplastics, Second Edition - Olagoke Olabisi 2016-02-03
This new edition of the bestselling Handbook of Thermoplastics incorporates recent developments and advances in thermoplastics with regard to materials development, processing, properties, and applications. With contributions from 65 internationally recognized authorities in the field, the second edition features new and updated discussions of several topics, including: Polymer nanocomposites Laser processing of thermoplastic composites Bioplastics Natural fiber thermoplastic composites Materials selection Design and application

Additives for thermoplastics Recycling of thermoplastics Regulatory and legislative issues related to health, safety, and the environment The book also discusses state-of-the-art techniques in science and technology as well as environmental assessment with regard to the impact of thermoplastics. Each chapter is written in a review format that covers: Historical development and commercialization Polymerization and process technologies Structural and phase characteristics in relation to use properties The effects of additives on properties and applications Blends, alloys, copolymers, and composites derived from thermoplastics Applications Giving thorough coverage of the most recent trends in research and practice, the Handbook of Thermoplastics, Second Edition is an indispensable resource for experienced and practicing professionals as well as upper-level undergraduate and graduate students in a wide range of disciplines and industries.

Metallurgical Abstracts - Institute of Metals 1966

Bibliographic Survey of Corrosion - National Association of Corrosion Engineers 1971

A compilation of corrosion abstracts.

Oil Spill Prevention and Response - Leslie Ray 1994

Very Good,No Highlights or Markup,all pages are intact.

Bacterial Biofilms - Tony Romeo 2008-02-26

Throughout the biological world, bacteria thrive predominantly in surface-attached, matrix-enclosed, multicellular communities or biofilms, as opposed to isolated planktonic cells. This choice of lifestyle is not trivial, as it involves major shifts in the use of genetic information and cellular energy, and has profound consequences for bacterial physiology and survival. Growth within a biofilm can thwart immune function and antibiotic therapy and thereby complicate the treatment of infectious diseases, especially chronic and foreign device-associated infections. Modern studies of many important biofilms have advanced well beyond the descriptive stage, and have begun to provide molecular details of the structural, biochemical, and genetic processes that drive biofilm formation and its dispersion. There is much diversity in the details of biofilm development among various species, but there are also commonalities. In most species, environmental and nutritional conditions greatly influence biofilm development. Similar kinds of adhesive molecules often promote biofilm formation in diverse species. Signaling and regulatory processes that drive biofilm development are often conserved, especially among related bacteria. Knowledge of such processes holds great promise for efforts to control biofilm growth and combat biofilm-associated infections. This volume focuses on the biology of biofilms that affect human disease, although it is by no means comprehensive. It opens with chapters that provide the reader with current perspectives on biofilm development, physiology, environmental, and regulatory effects, the role of quorum sensing, and resistance/phenotypic persistence to antimicrobial agents during biofilm growth.

Nuclear Science Abstracts - 1959-06

Developments in Corrosion Protection - Mahmood Aliofkhazraei 2014-02-20

One of the first thing that comes to your mind after hearing the term “corrosion” is corrosion of a metal. Corrosion is a basically harmful phenomenon, but it can be useful in some cases. For instance, environment’s pollution with corrosion products and damage to the performance of a system are among its harmful effects, whereas electric energy generation in a battery and cathodic protection of many structures are among its advantages. However, these advantages are almost nothing as compared to the costs and effects imposed by its detrimental influences. The enormous costs of this phenomenon can be better understand through studying the published statistics on direct and indirect corrosion damages on economy of governments. The direct cost of corrosion is near 3 % of the gross domestic product (GDP) of USA. Considering this huge cost, it is necessary to develop and expand the corrosion science and its protection technologies.

Sustainable Composites for Aerospace Applications - Mohammad Jawaid 2018-04-27

Sustainable Composites for Aerospace Applications presents innovative advances in the fabrication, characterization and applications of LDH polymer nanocomposites. It covers fundamental structural and chemical knowledge and explores various properties and characterization techniques, including microscopic, spectroscopic and mechanical behaviors. Users will find a strong focus on the potential applications of LDH polymer nanocomposites, such as in energy, electronics, electromagnetic shielding, biomedical, agricultural, food packaging and water purification functions. This book provides comprehensive coverage of cutting-edge research in the field of LDH polymer nanocomposites and future applications, and is an essential read for all academics, researchers, engineers and students working in this area. Presents fundamental knowledge of LDH polymer nanocomposites, including chemical composition, structural features and fabrication techniques Provides an analytical overview of the different types of characterization techniques and technologies Contains extensive reviews on cutting-edge research for future applications in a variety of industries

Cathodic Protection for Reinforced Concrete Bridge Decks - John B. Vrable 1977

Fairplay World Shipping Directory - 1997

Civil Engineering - 1959

Transactions - 1982

Journal of the Institute of Metals - Institute of Metals 1958

Metals Abstracts - 1988

Fibre Metal Laminates - Ad Vlot 2011-06-28

Fibre metal laminates were developed at Delft University of Technology in The Netherlands, from the beginning of the 1980s. This is a new family of hybrid materials consisting of thin metal layers bonded together by fibres embedded in an adhesive. As a result of this build-up, fibre metal laminates possess a mixture of the characteristics of both metals and composite materials. Initial development led to the `Arall' variant using aramid fibres, which was first applied on the C-17 military transport aircraft around 1990. Large-scale application became possible with a variant using glass fibres, dubbed `Glare', which was selected for the Airbus A380 super jumbo in 2001. This is the first book to discuss these new materials and it deals mostly with Glare. It covers most of the relevant aspects of the materials, from static mechanical properties, fatigue and impact to design, production and maintenance of aircraft structures. This book contains the basic information on these new materials necessary for engineers and aircraft operators alike.

Metal Finishing Abstracts - 1963

Oceanic Abstracts - 1995-11

Tribocorrosion - Anna Igual Munoz 2020-06-16

This book is a toolbox for identifying and addressing tribocorrosion situations from an engineering point of view. It is an accessible and introductory guideline to the emerging and interdisciplinary field of tribocorrosion covering the main concepts of tribology and corrosion. It describes specific tribocorrosion concepts, models and experimental techniques as well as their application to practical situations in which mechanical and chemical phenomena act simultaneously.

Cast and Wrought Aluminium Bronzes - Harry Meigh 2018-04-24

Continuous casting of non-ferrous metals has been practised for well over 100 years. It has many advantages over static ingot and book mould casting, the most important being improved yield, reduced energy consumption and reduction of manpower, with a consequent reduction in cost. This book shows how the prrocess can be used in an engineering environment for casting a wide range of copper based alloys and precious metals, including gold and silver, and selected nickel alloys.

Handbook of Saline Water Conversion - A. Delyannis 1968

Index of Patents Issued from the United States Patent Office - 1983

Ionized Physical Vapor Deposition - 1999-10-14
This volume provides the first comprehensive look at a pivotal new technology in integrated circuit fabrication. For some time researchers have sought alternate processes for interconnecting the millions of transistors on each chip because conventional physical vapor deposition can no longer meet the specifications of today's complex integrated circuits. Out of this research, ionized physical vapor deposition has emerged as a premier technology for the deposition of thin metal films that form the dense interconnect wiring on state-of-the-art microprocessors and memory chips. For the first time, the most recent developments in thin film deposition using ionized physical vapor deposition (I-PVD) are presented in a single coherent source. Readers will find detailed descriptions of relevant plasma source technology, specific deposition systems, and process recipes. The tools and processes covered include DC hollow cathode magnetrons, RF inductively coupled plasmas, and microwave plasmas that are used for depositing technologically important materials such as copper, tantalum, titanium, TiN, and aluminum. In addition, this volume describes the important physical processes that occur in I-PVD in a simple and concise way. The physical descriptions are followed by experimentally-verified numerical models that provide in-depth insight into the design and operation I-PVD tools. Practicing process engineers, research and development scientists, and students will find that this book's integration of tool design, process development, and fundamental physical models make it an indispensable reference. Key Features: The first comprehensive volume on ionized physical vapor deposition Combines tool design, process development, and fundamental physical understanding to form a complete picture of I-PVD Emphasizes practical applications in the area of IC fabrication and interconnect technology Serves as a guide to select the most appropriate technology for any deposition application *This single source saves time and effort by including comprehensive information at one's finger tips *The integration of tool design, process development, and fundamental physics allows the reader to quickly understand all of the issues important to I-PVD *The numerous practical applications assist the working engineer to select and refine thin film processes

Corrosion in Marine and Saltwater Environments 3 - D. Shifler 2009-05
This issue of ECS Transactions, ¿Corrosion in Marine and Saltwater Environments 3¿, is the continuation of successful symposia held in 1999 and 2004, hosted by The Electrochemical Society. The papers in this issue were presented at the 2008 PRiME meeting held in Honolulu, Hawaii, from October 12 to 17, 2008. The goal of this symposium was to address a wide spectrum of corrosion research in marine and other saltwater environments and to provide a forum to examine the most recent ideas and advances in the understanding of corrosion processes, mechanisms, and means of corrosion prevention or control from both a basic and applied research approach.

Russian Metallurgy - 1993

Index of Patents Issued from the United States Patent and Trademark Office - 1983

Bionanocomposites for Packaging Applications - Mohammad Jawaid 2017-11-21
This book presents a unified overview of eco-friendly bionanocomposites on the basis of characterization, design, manufacture, and application. It also explores replacing conventional materials with bionanocomposites with a focus on their use in packaging applications. In addition, the book broadens readers’ insights by providing illustrations and tables summarizing the latest research on the packaging applications of different bionanocomposites. By offering a detailed account of this field of research and describing real-world applications, it enables researchers, scientists, and professionals in industry to develop a more informed understanding of the need for bionanocomposites in the development of green, biodegradable, and sustainable packaging

applications.

Japanese Technical Abstracts - 1987

Compendium of Surface and Interface Analysis - The Surface Science Society of Japan 2018-02-19

This book concisely illustrates the techniques of major surface analysis and their applications to a few key examples. Surfaces play crucial roles in various interfacial processes, and their electronic/geometric structures rule the physical/chemical properties. In the last several decades, various techniques for surface analysis have been developed in conjunction with advances in optics, electronics, and quantum beams. This book provides a useful resource for a wide range of scientists and engineers from students to professionals in understanding the main points of each technique, such as principles, capabilities and requirements, at a glance. It is a contemporary encyclopedia for selecting the appropriate method depending on the reader's purpose.