

Surface And Coatings Technology Elsevier

Surface & Coatings Technology J. P. G. Farr 2016-06-03 Surface & Coatings Technology represents the start of a new era for the journal, not only with the change in title to Surface and Coatings Technology, but also with the significant change in the journal's scope, which is intended to place it in the forefront of the coatings and surface modification field. This presents volume contains 100 contributions. It is intended to become the principal forum for the interchange of information on the science, technology, and application of coatings and modified surfaces as they relate to modification of the mechanical, chemical, or optical properties of materials. The aim of the journal is to publish research papers and invited review articles on various subjects. A new feature will be the addition of a short section at the beginning of each issue in which each author states which technical problems are being addressed in his article. These will be catalogued at the end of each year in order that a scientist or engineer who has a particular problem related to coatings can determine whether there were any papers that addressed the problem. It is hoped that Surface and Coatings Technology will have a significant impact in one of the most exciting areas of materials research being investigated today.

Surface & Coatings Technology 2004

Coatings for Biomedical Applications Mike Driver 2012-02-22 The biomaterials sector is rapidly expanding and significant advances have been made in the technology of biomedical coatings and materials, which provide a means to improve the wear of joints, change the biological interaction between implant and host and combine the properties of various materials to improve device performance. Coatings for biomedical applications provides an extensive review of coating types and surface modifications for biomedical applications. The first part of the book explores a range of coating types and their biomedical applications. Chapters look at hydrophilic, mineral and pyrolytic carbon coatings in and ex vivo orthopaedic applications and finally at surface modification and preparation techniques. Part two presents case studies of orthopaedic and ophthalmic coatings, and biomedical applications including vascular stents, cardiopulmonary by-pass equipment and ventricular assist devices. With its clear structure and comprehensive review of research, Coatings for biomedical applications is a valuable resource to researchers, scientists and engineers in the biomedical industry. It will also benefit anyone studying or working within the biomedical sector, particularly those specialising in biomedical coatings. Provides an extensive review of coating types and surface modifications for biomedical applications Chapters look at hydrophilic coatings for biomedical applications in and ex vivo, mineral coatings for orthopaedic applications, pyrolytic carbon coating and other commonly-used biomedical coatings Presents case studies of orthopaedic and ophthalmic coatings, and biomedical applications including vascular stents, cardiopulmonary by-pass equipment and ventricular assist devices

Glass Surfaces D.E. Day 2013-10-22 Glass Surfaces covers the proceedings of the Fourth Rolla Ceramic Materials Conference on Glass Surfaces. The book presents 38 papers that are organized according to their respective theme. The text first covers the structure of subsurface layers and their role in glass technology, and then proceeds to discussing surface characterization and experimental techniques. Next, the book talks about interfacial phenomena, such as interdiffusion of hydrogen and alkali ions in a glass surface and interdiffusion of hydrogen and alkali ions in a glass surface. The fourth part covers corrosion and chemical durability, which covers topics related to crack, fatigue, and weathering. The next part deals with adsorption, while the last part tackles surface coatings, films, and treatments. The book will be of great use to scientists and professionals in the glass industry.

Iron Compounds—Advances in Research and Application: 2013 Edition 2013-06-21 Iron Compounds—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a

concise format. The editors have built Iron Compounds—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Iron Compounds—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Plasma Electrolytic Oxidation (PEO) Coatings Marta Mohedano 2021-06-02 Plasma electrolytic oxidation (PEO), also known as micro-arc oxidation (MAO), functionalizes surfaces, improving the mechanical, thermal, and corrosion performance of metallic substrates, along with other tailored properties (e.g., biocompatibility, catalysis, antibacterial response, self-lubrication, etc.). The extensive field of applications of this technique ranges from structural components, in particular, in the transport sector, to more advanced fields, such as bioengineering. The present Special Issue covers the latest advances in PEO-coated light alloys for structural (Al, Mg) and biomedical applications (Ti, Mg), with 10 research papers and 1 review from leading research groups around the world.

Laser Surface Engineering Jonathan R. Lawrence 2014-10-02 Lasers can alter the surface composition and properties of materials in a highly controllable way, which makes them efficient and cost-effective tools for surface engineering. This book provides an overview of the different techniques, the laser-material interactions and the advantages and disadvantages for different applications. Part one looks at laser heat treatment, part two covers laser additive manufacturing such as laser-enhanced electroplating, and part three discusses laser micromachining, structuring and surface modification. Chemical and biological applications of laser surface engineering are explored in part four, including ways to improve the surface corrosion properties of metals. Provides an overview of thermal surface treatments using lasers, including the treatment of steels, light metal alloys, polycrystalline silicon and technical ceramics Addresses the development of new metallic materials, innovations in laser cladding and direct metal deposition, and the fabrication of tuneable micro- and nano-scale surface structures Chapters also cover laser structuring, surface modification, and the chemical and biological applications of laser surface engineering

Organosilicon Compounds—Advances in Research and Application: 2013 Edition 2013-06-21 Organosilicon Compounds—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Organosilicon Compounds—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Organosilicon Compounds—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Engineering Coatings S Grainger 1998-08-24 It is now 10 years since the first edition of Engineering Coatings by Stan Grainger appeared. The success of that edition, and the developments in the area since its publication make this new edition a valuable addition to the literature on the subject. This new edition describes the many methods by which surface coatings or surface modification can be carried out to delay surface degradation and prolong the useful life of engineering components. Since surface technology has advanced in many areas, new techniques

such as the newer thermal spray processes and laser surfacing are now covered and the book has been expanded to include more coverage on corrosion. Major changes have also taken place in health and safety legislation, and the sections covering health and safety have been entirely revised as a result. Engineering Coatings with its breadth of coverage and sound basis in industrial practice is an invaluable guide to methods which have the potential to save money in many industries concerned with wear, corrosion, welding and thermal spraying of engineering components.

High-Performance Organic Coatings A S Khanna 2008-07-09 Paint coatings remain the most widely used way of protecting steel structures from corrosion. This important book reviews the range of organic paint coatings and how their performance can be enhanced to provide effective and lasting protection. The book begins by reviewing key factors affecting the success of a coating, including surface preparation, methods of application, selecting an appropriate paint and testing its effectiveness. It also discusses why coatings fail, including how they degrade, and what can be done to prevent these problems. Part two describes the main types of coating and how their performance can be enhanced, including epoxies, polyester, glass flake, fluoropolymer, polysiloxane and waterborne coatings. The final part of the book looks at applications of high-performance organic coatings in such areas as reinforced concrete, pipelines, marine and automotive engineering. With its distinguished editor and international team of contributors, High-performance organic coatings is a valuable reference for all those concerned with preventing corrosion in steel and other metal structures. Reviews the factors affecting the success of a coating Describes the main types of coating and how their performance can be enhanced, including epoxies, polyester and waterborne coatings Examines applications in such areas as reinforced concrete pipelines and marine engineering

Surface Coatings for Protection Against Wear B G Mellor 2006-05-30 As wear is a surface or near surface phenomenon it has long been realised that the wear resistance of a component can be improved by providing a surface of different composition from the bulk material. Although this book concentrates on surface coatings, the distinction between surface coatings and the process of modifying the surface by changing its composition is not always clear, so some useful surface modification techniques are also considered. Surface coatings for protection against wear, consists of twelve chapters written by different authors, experts in their field. After a brief introductory chapter wear phenomena and the properties required from a coating are addressed. Chapter three covers coating characterisation and property evaluation relevant to wear resistance with an emphasis on mechanical testing of coatings. The next chapter provides an introduction to the various methods available to deposit wear resistant coatings. The following six chapters describe in detail wear resistant coatings produced by various deposition routes. Emphasis is placed on the microstructure property relationship in these coatings. Chapter eleven addresses coatings and hardfacings, produced from welding processes, specifically modern developments such as friction surfacing and pulsed electrode surfacing techniques. The final chapter is dedicated to future trends in both coating materials and coating processes. Surface coatings for protection against wear is essential for anyone involved in selecting coatings and processes and will be an invaluable reference resource for all engineers and students concerned with the latest developments in coatings technology. Essential for anyone involved in selecting coatings and processes, engineers and students Written by an international team of experts in the field

Benzylidene Compounds—Advances in Research and Application: 2013 Edition 2013-06-21

Benzylidene Compounds—Advances in Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Stilbenes. The editors have built Benzylidene Compounds—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Stilbenes in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Benzylidene Compounds—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is

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Surface & Coatings Technology B. D. Sartwell 2016-06-03 *Surface & Coatings Technology*, Volume 61 presents the proceeding of the 20th International Conference on Metallurgical Coatings and Thin Films, held in San Diego, California, on April 19–23, 1993. This book discusses a variety of topics related to surface and coatings technology, including coatings for use at high temperature, hard coatings, and vapor deposition technology. Organized into 141 chapters, this compilation of papers begins with an overview of the coating requirements for long-life bucket protection, how each of these coating systems has performed, and the advantages and disadvantages of each. This text then discusses the gradient-free transition step achieved in the element analysis of the depth profiles. Other chapters consider the metastable yttrium oxide films that are synthesized using reactive sputter deposition. This book discusses as well the use of appropriate copper-based alloy coatings on structural components. The final chapter deals with the particle mechanical and thermal behavior in the process of high velocity oxy-fuel spraying. This book is a valuable resource for chemical engineers and metallurgists.

Bacterial Processes—Advances in Research and Application: 2013 Edition 2013-06-21

Bacterial Processes—Advances in Research and Application: 2013 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about ZZZAdditional Research in a compact format. The editors have built *Bacterial Processes—Advances in Research and Application: 2013 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Bacterial Processes—Advances in Research and Application: 2013 Edition* has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Surface Modification by Solid State Processing Rosa M. Miranda 2013-10-31 *Surface Modification by Solid State Processing* describes friction-based surfacing techniques for surface modification to improve resistance to corrosion and wear, also changing surface chemistry. Surface conditions are increasingly demanding in industrial applications and surface modification can reduce manufacturing and maintenance costs, leading to improved component performance, reliability and lifetime. Friction-based technologies are promising solid state processing technologies, particularly for light alloys, in the manufacturing of composite surface and functionally graded materials This title is divided into five chapters, and after an introduction the book covers friction surfacing; friction stir processing; surface reinforcements of light alloys; and characterization techniques based on eddy currents. Describes friction-based surfacing techniques for surface modification to improve resistance to corrosion and wear, and change surface chemistry Emphasizes industrial applications Describes existing and emerging techniques

Surface Coating and Modification of Metallic Biomaterials Cuie Wen 2015-03-31 Despite advances in alternative materials, metals are still the biomaterial of choice for a number of clinical applications such as dental, orthopedic and cardiac implants. However, there are a number of intrinsic problems associated with implanting metal in the biological environment, such as wear, corrosion, biocompatibility and toxicity, which must be addressed. Modern technology has enabled scientists to modify metal surfaces or apply special coatings to metals to improve their performance safety. *Surface Coating and Modification of Metallic Biomaterials* will discuss the most important modification techniques and coatings for metals, first covering the fundamentals of metals as a biomaterial and then exploring surface modification techniques and coatings. An expansive overview

of surface modification techniques for biomedical use In-depth exploration of issues arising from metal biomaterial use Includes examples of applications in a clinical setting

Paint and Surface Coatings Ronald Lambourne 1993-01-01

Metallurgical Coatings and Thin Films 1998 Bruce D. Sartwell 1998 Hardbound. In keeping with the high standard set at previous conferences, these proceedings present high quality, state-of-the-art papers covering this dynamic field. Papers from symposia A, B, E and G have been published as a special issue of Surface and Coatings Technology and the remaining papers were published in Thin Solid Films. The resulting proceedings, containing more than 90 invited papers by internationally recognized experts, should be of interest to materials scientists, physicists, electronic, chemical and mechanical engineers, and chemists.

Apatites—Advances in Research and Application: 2013 Edition 2013-06-21 Apatites—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Apatites—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Apatites—Advances in Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Handbook of Research on Tribology in Coatings and Surface Treatment Pakseresht, Amirhossein 2022-03-25 Advances are continuously being made in applying the coatings and surface treatments by different techniques to reduce the damages from tribology. Engineers need more detailed information to compare the capability of each coating process in wear resistant and lubrication applications. It is also important to focus on the concepts of tribology in various applications such as the manufacturing process, bio implants, machine elements, and corrosive environments. The need for a comprehensive resource addressing these findings in order to improve wear resistance is unavoidable. The Handbook of Research on Tribology in Coatings and Surface Treatment evaluates the latest advances the fabrication of wear-resistant and lubricant coatings by different techniques and investigates wear-resistant coatings and surface treatments in various applications such as the automobile industry. Covering a wide range of topics such as lubricant coatings and wearable electronic devices, it is ideal for engineers, industry professionals, researchers, academicians, scholars, practitioners, instructors, and students.

Polymetallic Coatings to Control Biofouling in Pipelines Vinita Vishwakarma 2021-09-13 Most of the pipelines used for the transport of various fluids are susceptible to the formation of biofilms, and the undesirable accumulation of microorganisms in pipelines leads to biodeterioration and increases the maintenance cost of the pipelines. This book focuses on nanostructured polymetallic coatings for corrosion and biofouling protection in offshore oil and gas pipelines, marine pipelines, ship structures and port facilities, and corrosion resistance surfaces of several engineered structures. Considering various reasons of biofouling in pipelines that transport crude and refined petroleum, gas, biofuels, and other fluids including sewage, slurry, and water for drinking or irrigation, the underlying mechanism is thoroughly explained. A comparison of various protective techniques is also highlighted for the choice of methods for specific applications. Features: Provides information on biofouling control with broad significance and applicability in various industrial and research areas. Discusses microbially induced corrosion on biofuel transporting pipelines. Includes data from experiments conducted to overcome biofouling and biocorrosion. Gives out particular attention to metallic coatings and environmental considerations. Explores novel technologies preventing biofouling on metallic and polymeric substrates. This book is for researchers and graduate students in Coatings and Paints, Microbiology, Bioprocess Engineering, Biotechnology,

Industrial Engineering, Mechanical and Chemical Engineering, Marine Engineering, Surface and Corrosion Engineering, and Water and Wastewater Treatment.

Nanocoatings and Ultra-Thin Films Abdel Salam Hamdy Makhlouf 2011-09-14 Coatings are used for a wide range of applications, from anti-fogging coatings for glass through to corrosion control in the aerospace and automotive industries. Nanocoatings and ultra-thin films provides an up-to-date review of the fundamentals, processes of deposition, characterisation and applications of nanocoatings. Part one covers technologies used in the creation and analysis of thin films, including chapters on current and advanced coating technologies in industry, nanostructured thin films from amphiphilic molecules, chemical and physical vapour deposition methods and methods for analysing nanocoatings and ultra-thin films. Part two focuses on the applications of nanocoatings and ultra-thin films, with chapters covering topics such as nanocoatings for architectural glass, packaging applications, conventional and smart nanocoatings for corrosion protection in aerospace engineering and ultra-thin membranes for sensor applications. With its distinguished editors and international team of contributors, Nanocoatings and ultra-thin films is an essential reference for professional engineers in the glazing, construction, electronics and transport industries, as well as all those with an academic research interest in the field. Provides an up-to-date review of the fundamentals, processes of deposition, characterisation and applications of nanocoatings Focuses on the applications of nanocoatings and ultra-thin films, covering topics such as nanocoatings for architectural glass, packaging applications and ultra-thin membranes for sensor applications Includes chapters on current and advanced coating technologies in industry, nanostructured thin films from amphiphilic molecules, chemical and physical vapour deposition methods and methods for analysing nanocoatings and ultra-thin films

Fluorinated Coatings and Finishes Handbook Laurence W. McKeen 2015-10-11 Fluorinated Coatings and Finishes Handbook: The Definitive User's Guide, Second Edition, addresses important, frequently posed questions by end-user design engineers, coaters, and coatings suppliers on fluorinated coatings and finishes, thus enabling them to achieve superior product qualities and shorter product and process development times. The book provides broad coverage of these fluorinated polymer coatings, including the best known PTFE, polytetrafluoroethylene, first trademarked as Teflon® and ePTFE (GoreTex®). Their inherent qualities of low surface tension, non-stick, low friction, high melting point, and chemical inertness make fluoropolymer coatings widely desirable across thousands of industrial and consumer applications, but these properties also make it difficult to convert fluoropolymers to coatings that have sufficient adhesion to the substrate to be protected. In this book, readers learn how fluoropolymer coatings are used and made, about their pigments and fillers, binders, dispersion processes, additives, and solvents. The book includes substrate preparation, coating properties, baking and curing processes, performance tests, applications, and health and safety. Provides a practical handbook that covers the theory and practice of fluorinated coatings, including the structure and properties of binders and how to get a non-stick coating to stick to the substrate Covers liquid and power fluorocoatings, their applications methods, curing and baking processes, and their commercial end uses Presents detailed discussions of testing methods related to fluorocoatings, common coating defects, how they form, how to eliminate them, and the health and safety aspects of using and applying fluorocoatings Includes substrate preparation, coating properties, baking and curing processes, performance tests, applications, and health and safety

Advances in Steel Research and Application: 2013 Edition 2013-06-21 Advances in Steel Research and Application / 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Advances in Steel Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Steel Research and Application / 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research

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Handbook of Metallurgical Process Design George E. Totten 2004-05-25 Reviewing an extensive array of procedures in hot and cold forming, casting, heat treatment, machining, and surface engineering of steel and aluminum, this comprehensive reference explores a vast range of processes relating to metallurgical component design-enhancing the production and the properties of engineered components while reducing manufacturing costs. It surveys the role of computer simulation in alloy design and its impact on material structure and mechanical properties such as fatigue and wear. It also discusses alloy design for various materials, including steel, iron, aluminum, magnesium, titanium, super alloy compositions and copper.

Materials and Surface Engineering J Paulo Davim 2012-02-17 This book, the second in the Woodhead Publishing Reviews: Mechanical Engineering Series, is a collection of high quality articles (full research articles, review articles, and cases studies) with a special emphasis on research and development materials and surface engineering and its applications. Surface engineering techniques are being used in the automotive, aircraft, aerospace, missile, electronic, biomedical, textile, petrochemical, chemical, moulds and dies, machine tools, and construction industries. Materials science is an interdisciplinary field involving the micro and nano-structure, processing, properties of materials and its applications to various areas of engineering, technology and industry. This book addresses all types of materials, including metals and alloys, polymers, ceramics and glasses, composites, nano-materials, biomaterials, etc. The relationship between micro and nano-structure, processing, properties of materials is discussed. Surface engineering is a truly interdisciplinary topic in materials science that deals with the surface of solid matter. Written by a highly knowledgeable and well-respected experts in the field The diversity of the subjects of this book present a range of views based on international expertise

Manufacturing and Industrial Engineering Pankaj Agarwal 2021-07-19 Advances in manufacturing and industrial engineering in terms of advanced and latest technologies are required nowadays to attend the accelerated demands of high quality, productivity, and sustainability simultaneously. This book fulfils the requirement by offering unique comprehensive chapters on advances in manufacturing and industrial engineering technologies with an emphasis on Industry 4.0. This book sheds light on advances in the field of manufacturing and industrial engineering for enhancement in productivity, quality, and sustainability. It comprehensively covers the recent developments, latest trends, research, and innovations being carried out. 3D printing, green manufacturing, computer integrated manufacturing, cloud manufacturing, intelligent condition monitoring, advanced forming, automation, supply chain optimization, and advanced manufacturing of composites are covered in this book. Industry 4.0 based technologies for mechanical and industrial engineering are also presented with both a theoretical and a practical focus. This book is written for students, researchers, professors, and engineers working in the fields of manufacturing, industrial, materials science, and mechanical engineering.

Extreme Tribology Ahmed Abdelbary 2020-01-06 Tribology is an unfamiliar term for many, but is experienced by all. It is the science of friction, wear and lubrication of contacting surfaces in relative motion. The aim of this book is to introduce the fundamentals of tribology as well as its challenges in extreme operating conditions. The book comprises a historical background and an introduction to familiarize both undergraduate and postgraduate readers with such an important topic. It addresses a comprehensive coverage of classical tribology of solid contacts, friction mechanics, wear mechanisms and lubrication technologies. The tribology of polymer composites, MEMS and NEMS are explored. In addition, tribology of automotive components is presented, as are tribological applications in many practical situations. Various test methods used in evaluating wear are reviewed. Diverse techniques applied in predicting wear behavior by mathematical models, FE modeling and ANN approach are discussed. The book reviews key features of extraordinary conditions associated

with, but not limited to, harsh environments, severe sliding and poor lubrication challenges. A basic understanding of failure modes in tribological systems is covered. The state-of-the-art research on tribology under these extreme conditions is extensively discussed, which will be of interest to researchers. The book highlights solutions for extreme tribology problems and provides an overview of various factors affecting tribosystems in harsh conditions.

Light Metals: Advances in Research and Application: 2011 Edition 2012-01-09 Light Metals: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Light Metals. The editors have built Light Metals: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Light Metals in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Light Metals: Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Coatings Tribology Kenneth Holmberg 2009-03-18 The surface coating field is a rapidly developing area of science and technology that offers new methods and techniques to control friction and wear. New coating types are continually being developed and the potential applications in different industrial fields are ever growing, ranging from machine components and consumer products to medical instruments and prostheses. This book provides an extensive review of the latest technology in the field, addressing techniques such as physical and chemical vapour deposition, the tribological properties of coatings, and coating characterization and performance evaluation techniques. Eleven different cases are examined in close detail to demonstrate the improvement of tribological properties and a guide to selecting coatings is also provided. This second edition is still the only monograph in the field to give a holistic view of the subject and presents all aspects, including test and performance data as well as insights into mechanisms and interactions, thus providing the level of understanding vital for the practical application of coatings. * An extensive review of the latest developments in the field of surface coatings * Presents both theory and practical applications * Includes a guide for selecting coatings

Handbook of Modern Coating Technologies Mahmood Aliofkhaezai 2021-03-06 Handbook of Modern Coating Technologies: Application and Development reviews recent applications and developments of modern coating technologies. The topics in this volume consist of role of antibacterial coatings in the development of biomaterials, insights of technologies for self-healing organic coatings, sensor applications, application of carbon nanotubes-based coating in the field of art conservation, oxide-based self-cleaning and corrosion-protective coatings, protective coatings for wood, applications of optical coatings on spectral selective structures, application of natural antimicrobial coating for controlling foodborne pathogens on meat and fresh produce, efficacy of antimicrobial coating in reducing pathogens on meat, composite membrane: fabrication, characterization, and applications, development of nanostructured HVOF coatings on high strength steel components for turbine blades, nanoscale multilayered composite coating, applications of sol-gel coatings, application of graphene in protective coating industry, application of coatings in outdoor high-voltage installations, defects and doping effects in thin films of transparent and conductive oxides, and functional coatings for lab-on-a-chip systems based on phospholipid polymers.

Issues in Materials and Manufacturing Research: 2012 Edition 2013-01-10 Issues in Materials and Manufacturing Research: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Molecular Modeling. The editors have built Issues in Materials and Manufacturing Research: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Molecular Modeling in this eBook to be

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Active Coatings for Smart Textiles Jinlian Hu 2016-04-06 *Active Coatings for Smart Textiles* presents the latest information on active materials and their application to textiles in the form of coatings and finishes for the purpose of improving performance and creating active functional effects. This important book provides detailed coverage of smart coating types, processes, and applications. After an introduction to the topic, Part One introduces various types of smart and active coatings, including memory polymer coatings, durable and self-cleaning coatings, and breathable coatings. Technologies and related processes for the application of coatings to textiles is the focus of Part Two, with chapters devoted to microencapsulation technology, plasma surface treatments, and nanotechnology-based treatments. The book ends with a section on applications of smart textiles with responsive coatings, which are increasingly finding commercial niches in sportswear, protective clothing, medical textiles, and architecture. Introduces various types of smart and active coatings for textiles Covers technologies and application processes for the coating and finishing of textiles Reviews commercial applications of such coatings, including in sportswear, protective clothing, medical textiles and architecture

Coating Technology for Vehicle Applications Sung Chul Cha 2015-04-20 This book describes current, competitive coating technologies for vehicles. The authors detail how these technologies impact energy efficiency in engines and with increased use of lightweight materials and by varying coatings applications can resolve wear problems, resulting in the increased lifecycle of dies and other vehicle components.

High Temperature Coatings Sudhangshu Bose 2017-11-27 *High Temperature Coatings, Second Edition*, demonstrates how to counteract the thermal effects of rapid corrosion and degradation of exposed materials and equipment that can occur under high operating temperatures. This is the first true practical guide on the use of thermally protective coatings for high-temperature applications, including the latest developments in materials used for protective coatings. It covers the make-up and behavior of such materials under thermal stress and the methods used for applying them to specific types of substrates, as well as invaluable advice on inspection and repair of existing thermal coatings. With his long experience in the aerospace gas turbine industry, the author has compiled the very latest in coating materials and coating technologies, as well as hard-to-find guidance on maintaining and repairing thermal coatings, including appropriate inspection protocols. The book is supplemented with the latest reference information and additional support to help readers find more application- and industry-type coatings specifications and uses. Offers an overview of the underlying fundamental concepts of thermally-protective coatings, including thermodynamics, energy kinetics, crystallography and equilibrium phases Covers essential chemistry and physics of underlying substrates, including steels, nickel-iron alloys, nickel-cobalt alloys and titanium alloys Provides detailed guidance on a wide variety of coating types, including those used against high temperature corrosion and oxidative degradation and thermal barrier coatings

Materials Surface Processing by Directed Energy Techniques Yves Pauleau 2006-04-25 The current status of the science and technology related to coatings, thin films and surface modifications produced by directed energy techniques is assessed in *Materials Surface Processing by Directed Energy Techniques*. The subject matter is divided into 20 chapters - each presented at a tutorial level - rich with fundamental science and experimental results. New trends and new results are also evoked to give an overview of future developments and applications. Provides a broad overview on modern coating and thin film deposition techniques, and their applications Presents and discusses various problems of physics and chemistry involved in the production, characterization and

applications of coatings and thin films Each chapter includes experimental results illustrating various models, mechanisms or theories

Handbook of Deposition Technologies for Films and Coatings Peter M. Martin 2009-12-01 This 3e, edited by Peter M. Martin, PNNL 2005 Inventor of the Year, is an extensive update of the many improvements in deposition technologies, mechanisms, and applications. This long-awaited revision includes updated and new chapters on atomic layer deposition, cathodic arc deposition, sculpted thin films, polymer thin films and emerging technologies. Extensive material was added throughout the book, especially in the areas concerned with plasma-assisted vapor deposition processes and metallurgical coating applications. * Explains in depth the many recent i

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