



Coatings for biomedical applications

Edited by Mike Driver

Coatings For Biomedical Applications Woodhead Publishing Series In Biomaterials

Magnus Ågren



Coatings For Biomedical Applications Woodhead Publishing Series In Biomaterials:

Thin Film Coatings for Biomaterials and Biomedical Applications Hans J Griesser, 2016-02-19 Thin Film Coatings for Biomaterials and Biomedical Applications discusses the latest information on coatings including their historic use by scientists who are looking to improve the properties and biological responses of the material host interface Thin films in particular are becoming more widely researched and used as an alternative to traditional sprayed coatings because they have a more uniform structure and therefore greater stability This book provides readers with a comprehensive guide to thin film coatings and their application in the biomaterials field Part One of the book details the fundamentals of thin films for biomedical application while Part Two looks at the special properties of thin films with a final section reviewing functional thin films and their usage in biomedical applications Provides a comprehensive review on the fundamentals properties and functions of thin film coatings for biomaterials Covers a broad range of applications for implantable biomaterials Written by an international team of contributors who carefully tailor the presented information in a way that addresses industry needs

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

Surface Engineering of Biomaterials Ajit Behera, Debasis Nayak, Biswajit Kumar Swain, 2024-03-20 Surface engineering provides one of the most important means of engineering product differentiation in terms of quality performance and lifecycle cost It is essential to achieve predetermined functional properties of materials such as mechanical strength biocompatibility corrosion resistance wear resistance and heat and oxidation resistance Surface Engineering of Biomaterials addresses this topic across a diverse range of process technologies and healthcare applications Introduces biomaterial surface science and surface engineering and includes criteria for biomaterial surface selection Focuses on a broad array of materials including metals ceramics polymers alloys and composites Discusses corrosion degradation and material release issues in implant materials Covers various processing routes to develop biomaterial surfaces including for smart and energy applications Details techniques for post modification of biomaterial surfaces This reference work helps researchers working at the intersection of materials science and biotechnology to engineer functional biomaterials for a variety of applications

Bioresorbable Polymers for Biomedical

Applications Giuseppe Perale, Jöns Hilborn, 2016-08-24 *Bioresorbable Polymers for Biomedical Applications From Fundamentals to Translational Medicine* provides readers with an overview of bioresorbable polymeric materials in the biomedical field A useful resource for materials scientists in industry and academia offering information on the fundamentals and considerations synthesis and processing and the clinical and R and D applications of bioresorbable polymers for biomedical applications Focuses on biomedical applications of bioresorbable polymers Features a comprehensive range of topics including fundamentals synthesis processing and applications Provides balanced coverage of the field with contributions from academia and industry Includes clinical and R and D applications of bioresorbable polymers for biomedical applications

Sterilisation of Biomaterials and Medical Devices Sophie Lerouge, Anne Simmons, 2012-09-27 The effective sterilisation of any material or device to be implanted in or used in close contact with the human body is essential for the elimination of harmful agents such as bacteria Sterilisation of biomaterials and medical devices reviews established and commonly used technologies alongside new and emerging processes Following an introduction to the key concepts and challenges involved in sterilisation the sterilisation of biomaterials and medical devices using steam and dry heat ionising radiation and ethylene oxide is reviewed A range of non traditional sterilisation techniques such as hydrogen peroxide gas plasma ozone and steam formaldehyde is then discussed together with research in sterilisation and decontamination of surfaces by plasma discharges Sterilisation techniques for polymers drug device products and tissue allografts are then reviewed together with antimicrobial coatings for self sterilisation and the challenge presented by prions and endotoxins in the sterilisation of reusable medical devices The book concludes with a discussion of future trends in the sterilisation of biomaterials and medical devices With its distinguished editors and expert team of international contributors Sterilisation of biomaterials and medical devices is an essential reference for all materials scientists engineers and researchers within the medical devices industry It also provides a thorough overview for academics and clinicians working in this area Reviews established and commonly used technologies alongside new and emerging processes Introduces and reviews the key concepts and challenges involved in sterilisation Discusses future trends in the sterilisation of biomaterials and medical devices

Biosensors for Medical Applications Séamus Higson, 2012-08-21

Biomedical sensors are an essential tool in the detection and monitoring of a wide range of medical conditions from cancer to Parkinson s disease Biosensors for medical applications provides a comprehensive review of established cutting edge and future trends in biomedical sensors and their applications Part one focuses on key principles and transduction approaches reviewing electrochemical piezoelectric and nano sized biosensors Impedence interrogated affinity biosensors for medical applications and practical applications of enzyme biosensors are explored before part two goes on to review specific medical applications Biosensors for DNA and RNA detection and characterization disease biomarker detection and the use of affibodies as an alternative to antibodies in cancer marker biosensors are investigated along with biosensors for drug testing

and discovery non invasive measurements and wearable biosensors for medical applications With its distinguished editor and international team of expert contributors Biosensors for medical applications is an essential guide for all those involved in the research design production and use of medical biosensors Provides a comprehensive review of established cutting edge and future trends in biomedical sensors and their applications Examines key principles and transduction approaches reviewing electrochemical piezoelectric and nano sized biosensors Reviews biosensors for DNA and RNA detection and characterisation disease biomarker detection and the use of affibodies as an alternative to antibodies in cancer marker biosensors

Biophotonics for Medical Applications Igor Meglinski, 2015-06-29 Biophotonics for Medical Applications presents information on the interface between laser optics and cell biology medicine The book discusses the development and application of photonic techniques that aid the diagnosis and therapeutics of biological tissues in both healthy and diseased states Chapters cover the fundamental technologies used in biophotonics and a wide range of therapeutic and diagnostic applications Presents information on the interface between laser optics and cell biology medicine Discusses the development and application of photonic techniques which aid the diagnosis and therapeutics of biological tissues in both healthy and diseased states Presents the fundamental technologies used in biophotonics and a wide range of therapeutic and diagnostic applications

Conversion Coatings for Magnesium and its Alloys Viswanathan S. Saji, T. S. N. Sankara Narayanan, Xiaobo Chen, 2022-02-01 This book covers fundamentals and recent advancements on conversion coatings for magnesium and its alloys The contents are presented in two sections respectively dealing with chemical and electrochemical conversion coatings The chemical conversion coating section is further subdivided into inorganic conversion coatings organic conversion coatings and advanced approaches coatings The section on electrochemical conversion coatings spans from fundamentals to state of the art progress on electrochemical anodization and plasma electrolytic oxidation of magnesium and its alloys

Biosynthetic Polymers for Medical Applications Laura Poole-Warren, Penny Martens, Rylie Green, 2015-11-23 Biosynthetic Polymers for Medical Applications provides the latest information on biopolymers the polymers that have been produced from living organisms and are biodegradable in nature These advanced materials are becoming increasingly important for medical applications due to their favorable properties such as degradability and biocompatibility This important book provides readers with a thorough review of the fundamentals of biosynthetic polymers and their applications Part One covers the fundamentals of biosynthetic polymers for medical applications while Part Two explores biosynthetic polymer coatings and surface modification Subsequent sections discuss biosynthetic polymers for tissue engineering applications and how to conduct polymers for medical applications Comprehensively covers all major medical applications of biosynthetic polymers Provides an overview of non degradable and biodegradable biosynthetic polymers and their medical uses Presents a specific focus on coatings and surface modifications biosynthetic hydrogels particulate systems for gene and drug delivery and conjugated conducting polymers

Bioinspired Materials for Medical Applications Lígia

Rodrigues, Manuel Mota, 2016-09-24 *Bioinspired Materials for Medical Applications* examines the inspiration of natural materials and their interpretation as modern biomaterials. With a strong focus on therapeutic and diagnostic applications, the book also examines the development and manipulation of bioinspired materials in regenerative medicine. The first set of chapters is heavily focused on bioinspired solutions for the delivery of drugs and therapeutics that also offer information on the fundamentals of these materials. Chapters in part two concentrate on bioinspired materials for diagnosis applications with a wide coverage of sensor and imaging systems. With a broad coverage of the applications of bioinspired biomaterials, this book is a valuable resource for biomaterials researchers, clinicians, and scientists in academia and industry, and all those who wish to broaden their knowledge in the allied field. Explores how materials designed and produced with inspiration from nature can be used to enhance man-made biomaterials and medical devices. Brings together the two fields of biomaterials and bioinspired materials. Written by a world-class team of research scientists, engineers, and clinicians. [Biomaterials in Plastic Surgery](#) W Peters, H Brandon, K L Jerina, C Wolf, V L Young, 2012-07-02 Employed for both cosmetic and reconstructive purposes, breast implants are one of the most widely used and controversial prostheses available. The development of safe, reliable products is vital to the future of this important field of surgery. *Biomaterials in plastic surgery* reviews the history, materials, and safety issues associated with breast implants. Beginning with an introduction to the history of biomaterials used for breast augmentation, *Biomaterials in plastic surgery* goes on to discuss development issues. It then discusses the chemistry and physical properties of biomedical silicones before reviewing cohesive gel and polyurethane foam implants. The book concludes by analysing the epidemiological evidence on the safety issues relating to breast implants, followed by a review of retrieval and analysis of breast implants, emphasizing strength, durability, and failure mechanisms. With its distinguished editors and international team of expert contributors, *Biomaterials in plastic surgery* is an important guide for surgeons, manufacturers, and all those researching this important field. Comprehensively examines the history, materials, and safety issues associated with breast implants. Provides an overview of the history of biomaterials used for breast augmentation and goes on to discuss the development and chemical and physical properties of biomedical silicones. Reviews cohesive gel breast implants and polyurethane foam breast implants. [Biocompatibility and Performance of Medical Devices](#) Jean-Pierre Boutrand, 2012-10-26 Implant and device manufacturers are increasingly facing the challenge of proving that their products are safe and biocompatible and that they will perform as expected. *Biocompatibility and performance of medical devices* provides an essential guide to the performance analysis of these vital devices. Part one introduces the key concepts and challenges faced in relation to biocompatibility in medical devices, with consideration of biological safety, evaluation, planning, and biomechanical and biochemical compatibility in innovative biomaterials. Part two goes on to discuss the evaluation and characterisation of biocompatibility in medical devices. Topics covered include material and chemical characterisation, allowable limits for toxic leachables in vivo and in vitro testing, and blood compatibility assessment. Testing

and interpreting medical device performance is the focus of part three with chapters describing preclinical performance studies for bone dental and soft tissue implants and mechanical testing of soft and hard tissue implants Part four provides information on the regulation of medical devices in the European Union Japan and China and the book concludes with part five a review of histopathology principles for biocompatibility and performance studies With its distinguished editor and international team of expert contributors Biocompatibility and performance of medical devices is a vital tool for all those involved in the research design production and application of medical devices including research directors production companies and medical regulatory agencies as well as industry professionals and academics Examines the key concepts and challenges faced in relation to biocompatibility in medical devices Discusses evaluation and characterisation issues including material and chemical characterization allowable limits for toxic leachables in vivo and in vitro testing and blood compatibility assessment Delivers a comprehensive overview of testing and interpreting medical device performance

Shape Memory Polymers for Biomedical Applications L Yahia, 2015-03-19 Shape memory polymers SMPs are an emerging class of smart polymers which give scientists the ability to process the material into a permanent state and predefine a second temporary state which can be triggered by different stimuli The changing chemistries of SMPs allows scientists to tailor important properties such as strength stiffness elasticity and expansion rate Consequently SMPs are being increasingly used and developed for minimally invasive applications where the material can expand and develop post insertion This book will provide readers with a comprehensive review of shape memory polymer technologies Part 1 will discuss the fundamentals and mechanical aspects of SMPs Chapters in part 2 will look at the range of technologies and materials available for scientific manipulation whilst the final set of chapters will review applications Reviews the fundamentals of shape memory polymers with chapters focussing on the basic principles of the materials Comprehensive coverage of design and mechanical aspects of SMPs Expert analysis of the range of technologies and materials available for scientific manipulation

Switchable and Responsive Surfaces and Materials for Biomedical Applications Johnathan Zhang, 2014-12-11 Surface modification of biomaterials can ultimately determine whether a material is accepted or rejected from the human body and a responsive surface can further make the material smart and intelligent Switchable and Responsive Surfaces and Materials for Biomedical Applications outlines synthetic and biological materials that are responsive under different stimuli their surface design and modification techniques and applicability in regenerative medicine tissue engineering drug delivery medical devices and biomedical diagnostics Part one provides a detailed overview of switchable and responsive materials and surfaces exploring thermo responsive polymers environmentally responsive polyelectrolytes and zwitterionic polymers as well as peptide based and photonic sensitive switchable materials Further chapters include a detailed overview of the preparation and analysis of switchable polymer brushes and copolymers for biomedical application Part two explores the biological interactions and biomedical applications of switchable surfaces where expert analysis is

provided on the interaction of switchable surfaces with proteins and cells The interaction of stimuli sensitive polymers for tissue engineering and drug delivery with biosurfaces is critiqued whilst the editor provides a skillful study into the application of responsive polymers in implantable medical devices and biosensors A comprehensive overview of switchable and responsive materials and surfaces Includes in depth analysis of thermo responsive polymers photonic sensitive materials and peptide based surfaces Detailed exploration of biological interactions of responsive and switchable surfaces covering stimuli sensitive polymers for drug delivery surfaces with proteins cells and application of polymers in medical devices

Handbook of Nanomaterials, Volume 1 Muhammad Imran Malik,Dilshad Hussain,Muhammad Raza Shah,Dong-Sheng Guo,2024-01-18 Handbook of Nanomaterials Electronics Information Technology Energy Transportation and Consumer Products offers a comprehensive resource that introduces the role of nanotechnology and nanomaterials in a broad range of areas covering fundamentals methods and applications In this volume the initial chapters introduce the core concepts of nanotechnology and synthesis methods and characterization techniques for nanomaterials This is followed by dedicated sections focusing on key application areas across electronics information technology energy transportation and consumer products In each chapter detailed but concise information is provided on a specific application covering methods and latest advances This book is of interest to researchers and advanced students approaching nanotechnology from a range of disciplines including materials science and engineering chemistry chemical engineering electronics energy biomedicine environmental science food science and agriculture as well as scientists engineers and R D professionals with an interest in the use of nanomaterials across a range of industries Introduces the reader to key applications of nanomaterials Provides broad systematic concise coverage supporting readers from a range of disciplines Covers applications across electronics information technology energy transportation and consumer products

Shoulder and Elbow Trauma and its Complications Michael Greiwe,2015-10-14 Shoulder and Elbow Trauma and Its Complications Volume 2 The Elbow provides an update on elbow surgery a type of procedure that is seeing a significant increase in recent years Although some of these surgeries are due to an aging population a large proportion of operations are being performed on younger patients who have damaged their joints through physical activity Worldwide many of the injuries sustained through sport and physical activity are fractures which can be difficult to treat and can cause complications Chapters in this detailed book will look at the most common types of elbow trauma and how to manage complications in surgery All major elbow traumas covered Discusses tactics on how to manage complications in surgery Provides information based on an aging population and the increase in sports related elbow fractures Joint specific information

Nanotechnology-Enhanced Orthopedic Materials Lei Yang,2015-07-28 Nanotechnology Enhanced Orthopedic Materials provides the latest information on the emergence and rapid development of nanotechnology and the ways it has impacted almost every aspect of biomedical engineering This book provides readers with a comprehensive overview of the field focusing on the fabrication and applications of these materials

presenting updated practical and systematic knowledge on the synthesis processing and modification of nanomaterials along with the rationale and methodology of applying such materials for orthopedic purposes Topics covered include a wide range of orthopedic material formulations such as ceramics metals polymers biomolecules and self assemblies Final sections explore applications and future trends in nanotechnology enhanced orthopedic materials Details practical information on the fabrication and modification of new and traditional orthopedic materials Analyzes a wide range of materials designs and applications of nanotechnology for orthopedics Investigates future trends in the field including sections on orthopedic materials with bacterial inhibitory properties and novel materials for the control of immune and inflammatory responses

Implantable Neuroprostheses for Restoring Function Kevin Kilgore, 2015-02-24 Research and developments in neuroprostheses are providing scientists with the potential to greatly improve the lives of individuals who have lost some function Neuroprostheses can help restore or substitute motor and sensory functions which may have been damaged as a result of injury or disease However these minute implantable sensors also provide scientists with challenges This important new book provides readers with a comprehensive review of neuroprostheses Chapters in part one are concerned with the fundamentals of these devices Part two looks at neuroprostheses for restoring sensory function whilst part three addresses neuroprostheses for restoring motor function The final set of chapters discusses significant considerations concerning these sensors Systematic and comprehensive coverage of neuroprostheses Covers the fundamentals of neuroprostheses their application in restoring sensory and motor function and an analysis of the future trends Keen focus on industry needs in the field of biomaterials

Medical Devices Seeram Ramakrishna, Lingling Tian, Charlene Wang, Susan Liao, Wee Eong Teo, 2015-08-18 Medical Devices and Regulations Standards and Practices will shed light on the importance of regulations and standards among all stakeholders bioengineering designers biomaterial scientists and researchers to enable development of future medical devices Based on the authors practical experience this book provides a concise practical guide on key issues and processes in developing new medical devices to meet international regulatory requirements and standards Provides readers with a global perspective on medical device regulations Concise and comprehensive information on how to design medical devices to ensure they meet regulations and standards Includes a useful case study demonstrating the design and approval process

Wound Healing Biomaterials - Volume 1 Magnus Ågren, 2016-06-03 Wound Healing Biomaterials Volume One Therapies and Regeneration discusses the types of wounds associated with trauma illness or surgery that can sometimes be extremely complex and difficult to heal Consequently there is a prominent drive for scientists and clinicians to find methods to heal these types of wounds with science increasingly turning towards biomaterials to address these challenges Much research is now concerned with new therapies regeneration methods and biomaterials to assist in wound healing and healing response This book provides readers with a comprehensive review of the fundamentals and advances in the field of wound healing with regard to therapies and tissue regeneration Chapters in Part One discuss

fundamentals and strategies of wound healing while Part Two reviews gene stem cell and drug delivery therapies for wound healing Final chapters look at tissue regeneration strategies making this an all encompassing book on the topic of wound care and biomaterials Provides more systematic and comprehensive coverage of specific therapies and biomaterials for wound healing Highlights research that is concerned with new therapies regeneration methods and the use of biomaterials to assist in wound healing and healing response Presents an organized layout of the material that is carefully arranged with clear titles and comprehensive section headings Looks at tissue regeneration strategies making this an all encompassing book on the topic of wound care

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