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Handbook of Research on Corrosion Sciences and Engineering El Kacimi, Younes, Guo, Lei, 2023-05-09 The climate change crisis presents a multi dimensional challenge to the development of the built environment With finite global resources and increasingly unpredictable climate patterns the need to improve our understanding of sustainable practices and materials for construction has never been more pressing The Handbook of Research on Corrosion Sciences and Engineering aims to shed light on the recent developments in the usage of sustainable materials to protect metallic materials against corrosion and provides emerging research exploring the theoretical and practical aspects of corrosion engineering science and technology Covering key topics such as machine learning smart coating sustainability and artificial intelligence this major reference work is ideal for construction workers industry professionals researchers academicians scholars practitioners instructors and students

Biomaterials and Engineering for Implantology Yoshiki Oshida, Takashi Miyazaki, 2022-02-07 Biomaterials are composed of metallic materials ceramics polymers composites and hybrid materials Biomaterials used in human beings require safety regulations toxicity allergic reaction etc When used as implantable materials their biological compatibility biomechanical compatibility and morphological compatibility must be accessed This book explores the design and requirements of biomaterials for the use in implantology

Advanced Metallic Biomaterials Madalina-Simona Baltatu, Dumitru-Doru Burduhos-Nergis, Diana Petronela Burduhos-Nergis, Petrica Vizureanu, 2022-02-25 The book presents the characterization and classification of metallic biomaterials with focus on titanium based alloys cobalt based alloys stainless steels and biodegradable alloys Emphasis is placed on the synthesis assessment of properties and medical applications such as multifunctional implants The book references 423 original resources and includes their direct web link for in depth reading Keywords Biomaterials Classification Titanium Alloys Cobalt Alloys Stainless Steels Biodegradable Alloys Medical Applications Optimization of Metallic Biomaterials Multifunctional Implants Tissue Reactions Toxicity of Metals Inflammatory Reactions Immunological Reactions Sensibility Allergy Carcinogenic Effects Ceramic Coatings Ionic Implantation in Plasma Biocompatibility

Corrosion Protection at the Nanoscale Susai Rajendran, Saeid Kakooei, Mahdi Yeganeh, Yongxin Li, Tuan Anh Nguyen, 2020-03-12 Corrosion Protection at the Nanoscale explores fundamental concepts on how metals can be protected at the nanoscale by using both nanomaterials based solutions including nanoalloys noninhibitors and nanocoatings It is an important reference resource for both materials scientists and engineers wanting to find ways to create an efficient corrosion prevention strategy Nanostructure materials have been widely used in many products such as print electronics contact interconnection implant nanosensors and display units to lessen the impact of corrosion Traditional methods for protection of metals include various techniques such as coatings inhibitors electrochemical methods anodic and cathodic protections metallurgical design are covered in this book Nanomaterials based protective methods can offer many advantages over their traditional counterparts such as protection for early stage higher

corrosion resistance better corrosion control This book also outlines these advantages and discusses the challenges of implementing nanomaterials as corrosion protection agents on a wide scale

Performance of Metals and Ceramics in Total Hip Arthroplasty Armando Reyes Rojas, Alfredo Aguilar Elguezabal, Alessandro Alan Porporati, Miguel Bocanegra Bernal, Hilda Esperanza Esparza Ponce, 2023-02-06 This book offers expert guidance on materials for total hip arthroplasty THA providing readers with quick access to well organized summaries on biomaterials such as metals ceramics polymers and composites It also includes in depth coverage of biocompatibility and implant problems such as necrosis ulceration high toxicity with metals and allergic reactions Coverage also emphasizes the mechanical properties of the materials used for prostheses applications immunity to corrosion enhanced biocompatibility complete inertness to the body environment and the high capacity to join with the bone and other tissues Performance of Metals and Ceramics in Total Hip Arthroplasty is an essential reference for engineers and scientists specializing in prostheses design and manufacturing and orthopedic medical professionals The book can also be used as a study guide for materials science and orthopedics students

Current Concepts in Dental Implantology Ilser Turkyilmaz, 2015-02-25 Implant dentistry has changed and enhanced significantly since the introduction of osseointegration concept with dental implants Because the benefits of therapy became apparent implant treatment earned a widespread acceptance Therefore the need for dental implants has caused a rapid expansion of the market worldwide Dental implantology continues to excel with the developments of new surgical and prosthodontic techniques and armamentarium The purpose of this book named Current Concepts in Dental Implantology is to present a novel resource for dentists who want to replace missing teeth with dental implants It is a carefully organized book which blends basic science clinical experience and current and future concepts This book includes ten chapters and our aim is to provide a valuable source for dental students post graduate residents and clinicians who want to know more about dental implants

Handbook of Biomaterial Properties William Murphy, Jonathan Black, Garth Hastings, 2016-06-11 This book provides tabular and text data relating to normal and diseased tissue materials and materials used in medical devices Comprehensive and practical for students researchers engineers and practicing physicians who use implants this book considers the materials aspects of both implantable materials and natural tissues and fluids Examples of materials and topics covered include titanium elastomers degradable biomaterials composites scaffold materials for tissue engineering dental implants sterilization effects on material properties metallic alloys and much more Each chapter author considers the intrinsic and interactive properties of biomaterials as well as their appropriate applications and historical contexts Now in an updated second edition this book also contains two new chapters on the cornea and on vocal folds as well as updated insights data and citations for several chapters

Surface Engineering and Technology for Biomedical Implants Yoshiki Oshida, 2014-04-15 This new book synthesizes a wide range of interdisciplinary literature to provide the state of the art of biomedical implants It discusses materials and explains the three basic requirements for implant success from a surface

engineering perspective biological compatibility biomechanical compatibility morphological compatibility Biomedical mechanical and materials engineers will find this book indispensable for understanding proper treatment of implant surfaces in order to achieve clinical success Highlights include Coverage of surface engineering of polymer metallic ceramic and composite implant materials Coverage of chemical mechanical physical thermal and combined surface modification technologies Explanations of interfacial reaction between vital tissue and non vital implant surface and Methodologies and technologies for modification of surface layer zone to promote the osteo integration the ultimate success for biomedical implants in both dental and medical practice **Fundamental Biomaterials: Ceramics** Sabu Thomas, Preetha

Balakrishnan, M.S. Sreekala, 2018-02-16 Fundamental Biomaterials Ceramics provides current information on ceramics and their conversion from base materials to medical devices Initial chapters review biomedical applications and types of ceramics with subsequent sections focusing on the properties of ceramics and on corrosion degradation and wear of ceramic biomaterials The book is ideal for researchers and professionals in the development stages of design but is also helpful to medical researchers who need to understand and communicate the requirements of a biomaterial for a specific application This title is the second in a three volume set with each reviewing the most important and commonly used classes of biomaterials and providing comprehensive information on material properties behavior biocompatibility and applications In addition with the recent introduction of a number of interdisciplinary bio related undergraduate and graduate programs this book will be an appropriate reference volume for large number of students at undergraduate and post graduate levels Provides current information on findings and developments of ceramics and their conversion from base materials to medical devices Includes analyses of the types of ceramics and a discussion of a range of biomedical applications and essential properties including information on corrosion degradation and wear and lifetime prediction of ceramic biomaterials Explores both theoretical and practical aspects of ceramics in biomaterials *Biomaterials and Medical Devices* Ferdyansyah

Mahyudin, Hendra Hermawan, 2016-02-26 This book presents an introduction to biomaterials with the focus on the current development and future direction of biomaterials and medical devices research and development in Indonesia It is the first biomaterials book written by selected academic and clinical experts experts on biomaterials and medical devices from various institutions and industries in Indonesia It serves as a reference source for researchers starting new projects for companies developing and marketing products and for governments setting new policies Chapter one covers the fundamentals of biomaterials types of biomaterials their structures and properties and the relationship between them Chapter two discusses unconventional processing of biomaterials including nano hybrid organic inorganic biomaterials Chapter three addresses biocompatibility issues including in vitro cytotoxicity genotoxicity in vitro cell models biocompatibility data and its related failure Chapter four describes degradable biomaterial for medical implants which include biodegradable polymers biodegradable metals degradation assessment techniques and future directions Chapter five

focuses on animal models for biomaterial research ethics care and use implantation study and monitoring and studies on medical implants in animals in Indonesia Chapter six covers biomimetic bioceramics natural based biocomposites and the latest research on natural based biomaterials in Indonesia Chapter seven describes recent advances in natural biomaterial from human and animal tissue its processing and applications Chapter eight discusses orthopedic applications of biomaterials focusing on most common problems in Indonesia and surgical intervention and implants Chapter nine describes biomaterials in dentistry and their development in Indonesia *Cell Biology and Translational Medicine, Volume 4* Kursad

Turksen,2019-01-08 Much research has focused on the basic cellular and molecular biological aspects of stem cells Much of this research has been fueled by their potential for use in regenerative medicine applications which has in turn spurred growing numbers of translational and clinical studies However more work is needed if the potential is to be realized for improvement of the lives and well being of patients with numerous diseases and conditions This book series Cell Biology and Translational Medicine CBTMED as part of SpringerNature s longstanding and very successful Advances in Experimental Medicine and Biology book series has the goal to accelerate advances by timely information exchange Emerging areas of regenerative medicine and translational aspects of stem cells are covered in each volume Outstanding researchers are recruited to highlight developments and remaining challenges in both the basic research and clinical arenas This current book is the fourth volume of a continuing series *Monitoring and Evaluation of Biomaterials and their Performance In Vivo*

Roger Narayan,2016-11-11 Monitoring and Evaluation of Biomaterials and Their Performance In Vivo provides essential information for scientists and researchers who need to assess and evaluate performance monitor biological responses gauge efficacy and observe changes over time Crucially it also enables the optimization of design for future biomaterials and implants This book presents readers with comprehensive coverage of the topic of in vivo monitoring of medical implants and biomaterials Contains a specific focus on monitoring and evaluation of biomaterials in vivo Multi faceted coverage of materials function and performance Focuses on a range of implants and subsequent bodily reactions *Encyclopedia of Biomedical Engineering* ,2018-09-01 Encyclopedia of Biomedical Engineering Three Volume Set is a unique source for rapidly evolving updates on topics that are at the interface of the biological sciences and engineering Biomaterials biomedical devices and techniques play a significant role in improving the quality of health care in the developed world The book covers an extensive range of topics related to biomedical engineering including biomaterials sensors medical devices imaging modalities and imaging processing In addition applications of biomedical engineering advances in cardiology drug delivery gene therapy orthopedics ophthalmology sensing and tissue engineering are explored This important reference work serves many groups working at the interface of the biological sciences and engineering including engineering students biological science students clinicians and industrial researchers Provides students with a concise description of the technologies at the interface of the biological sciences and engineering Covers all aspects of biomedical engineering also incorporating

perspectives from experts working within the domains of biomedicine medical engineering biology chemistry physics electrical engineering and more Contains reputable multidisciplinary content from domain experts Presents a one stop resource for access to information written by world leading scholars in the field **Composite Synthetic Scaffolds for Tissue Engineering and Regenerative Medicine** Naznin Sultana,Mohd Izzat Hassan,Mim Mim Lim,2014-10-16 This book addresses important biomaterials which are commonly used to fabricate scaffolds and it describes two major protocols employed in scaffold fabrication Tissue engineering or regenerative medicine aims at restoring ex novo tissues and organs whose functionality has been compromised as a consequence of diseases or traumatic events The innovative concept underlying tissue engineering is the use of autologous cells obtained from a biopsy of the patient Cells are seeded on a porous scaffold which has the role of supporting and guiding cells towards the development of tissue like structures as well as providing a platform for the delivery under controlled condition of growth factor release etc The successful manufacture of scaffolds for tissue engineering applications is crucial In this book these biomaterials are discussed The book also covers illustrated examples structure and properties of scaffolds cellular interactions and drug delivery

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 **Boron Nitride Nanotubes in Nanomedicine** Gianni Ciofani,Virgilio MATTOLI,2016-04-26 Boron Nitride Nanotubes in Nanomedicine compiles for the first time in a single volume all the information needed by researchers interested in this promising type of smart nanoparticles and their applications in biomedicine Boron nitride nanotubes BNNTs represent an innovative and extremely intriguing class of nanomaterials After introducing BNNTs and explaining their preparation and evaluation the book shows how the physical chemical piezoelectric and biocompatibility properties of these nanotubes give rise to their potential uses in biomedicine Evidence is offered from both in vitro and in vivo investigations for how BNNTs can be useful in biomedical and nanomedicine applications such as therapeutic applications tissue regeneration nanovectors for drug delivery and intracellular nanotransducers Covers a range

of promising biomedical BNNT applications Provides great value not just to academics but also industry researchers in fields such as materials science molecular biology pharmacology biomedical engineering and biophysical sciences Offers evidence for how BNNTs can be useful in biomedical and nanomedicine applications such as therapy tissue regeneration nanovectors for drug delivery and intracellular nanotransducers Incorporates for the first time in a single volume all the information needed by researchers interested in this promising type of smart nanoparticles and their applications in biomedicine *3D Printing in Biomedical Engineering* Sunpreet Singh,Chander Prakash,Rupinder Singh,2020-07-16 This book gives a comprehensive overview of the rapidly evolving field of three dimensional 3D printing and its increasing applications in the biomedical domain 3D printing has distinct advantages like improved quality cost effectiveness and higher efficiency compared to traditional manufacturing processes Besides these advantages current challenges and opportunities regarding choice of material design and efficiency are addressed in the book Individual chapters also focus on select areas of applications such as surgical guides tissue regeneration artificial scaffolds and implants and drug delivery and release This book will be a valuable source of information for researchers and professionals interested in the expanding biomedical applications of 3D printing *Biodegradable Metals* Eli Aghion,2018-12-06 This book is a printed edition of the Special Issue Biodegradable Metals that was published in Metals *Applications of Nanocomposite Materials in Drug Delivery* Inamuddin,Abdullah M. Asiri,Ali Mohammad,2018-06-18 Applications of Nanocomposite in Drug Delivery discusses and explores the applications of nanocomposites in the area of drug delivery Starting with a scientific understanding of drug delivery fundamentals the book explores the utility of nanocomposites in the area of controlled transdermal osteo articular tuberculosis and stimulus sensitive drug delivery applications The book intricately details and discusses a variety of methods for their preparation while also highlighting specific applications of nanocomposites in targeted drug delivery Discusses nanocomposite and nanotechnology for drug delivery Outlines the mechanisms involved in targeted drug delivery using nanocomposites Includes synthesis methods for nanocomposites used in controlled drug delivery Lists various applications of nanocomposites in drug delivery *3D Printing of Metals* Manoj Gupta,2019-08-13 3D printing is rapidly emerging as a key manufacturing technique that is capable of serving a wide spectrum of applications ranging from engineering to biomedical sectors Its ability to form both simple and intricate shapes through computer controlled graphics enables it to create a niche in the manufacturing sector Key challenges remain and a great deal of research is required to develop 3D printing technology for all classes of materials including polymers metals ceramics and composites In view of the growing importance of 3D manufacturing worldwide this Special Issue aims to seek original articles to further assist in the development of this promising technology from both scientific and technological perspectives Targeted reviews including mini reviews are also welcome as they play a crucial role in educating students and young researchers

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