



Microfluidic devices for biomedical applications

Edited by Xiujun (James) Li and Yu Zhou

Microfluidic Devices For Biomedical Applications

Woodhead Publishing Series In Biomaterials

L Barnes, Ian Cooper



Microfluidic Devices For Biomedical Applications Woodhead Publishing Series In Biomaterials:

Microfluidic Devices for Biomedical Applications Xiujun (James) Li, Yu Zhou, 2013-10-31 Microfluidics or lab on a chip LOC is an important technology suitable for numerous applications from drug delivery to tissue engineering Microfluidic devices for biomedical applications discusses the fundamentals of microfluidics and explores in detail a wide range of medical applications The first part of the book reviews the fundamentals of microfluidic technologies for biomedical applications with chapters focussing on the materials and methods for microfabrication microfluidic actuation mechanisms and digital microfluidic technologies Chapters in part two examine applications in drug discovery and controlled delivery including micro needles Part three considers applications of microfluidic devices in cellular analysis and manipulation tissue engineering and their role in developing tissue scaffolds and stem cell engineering The final part of the book covers the applications of microfluidic devices in diagnostic sensing including genetic analysis low cost bioassays viral detection and radio chemical synthesis Microfluidic devices for biomedical applications is an essential reference for medical device manufacturers scientists and researchers concerned with microfluidics in the field of biomedical applications and life science industries Discusses the fundamentals of microfluidics or lab on a chip LOC and explores in detail a wide range of medical applications Considers materials and methods for microfabrication microfluidic actuation mechanisms and digital microfluidic technologies Considers applications of microfluidic devices in cellular analysis and manipulation tissue engineering and their role in developing tissue scaffolds and stem cell engineering

Diamond-based materials for biomedical applications A. Karczemska, 2013-03-19 This chapter discusses the possibilities and advantages offered by the use of diamond materials in the fabrication of microfluidic devices The correct choice of material with optimal properties is crucial in the design of modern microfluidic devices The different applications of diamond materials in this field are reviewed along with a discussion of recent development and future trends

Joint Replacement Technology Peter A. Revell, 2014-06-13 This second edition of Joint Replacement Technology provides a thoroughly updated review of recent developments in joint replacement technology Joint replacement is a standard treatment for joint degradation and has improved the quality of life of millions of patients Collaboration between clinicians and researchers is critical to its continued success and to meet the rising expectations of patients and surgeons Part one introduces the advances in joint replacement technology tribological considerations and experiments and immune and regenerative responses to joint replacements Part two covers the materials and techniques used in joint replacement The advantages and disadvantages of different metals are explained here as well as the use of ceramics This section also addresses challenges in joint bearing surfaces design and cementless fixation techniques Biological and mechanical issues are considered in part three including healing responses to implants and biological causes of prosthetic joint failure and a new chapter on imaging of joint prostheses Each chapter in part four describes the clinical challenges of replacing specific joints with specific focus on hip knee intervertebral disc joint

shoulder arthroplasty elbow arthroplasty and pyrocarbon small joint arthroplasty Thanks to its widespread collaboration and international contributors Joint Replacement Technology is useful for materials scientists and engineers in both academia and biomedical industry Chemists clinicians and other researchers in this area will also find it invaluable This second edition provides an updated comprehensive review of recent developments in joint replacement technology Provides coverage for the most pertinent materials science and engineering issues in depth Reviews the specific joints biological and mechanical issues and fixation techniques

Science and Principles of Biodegradable and Bioresorbable Medical Polymers Xiang Cheng Zhang, 2016-09-22 Science and Principles of Biodegradable and Bioresorbable Medical Polymers Materials and Properties provides a practical guide to the use of biodegradable and bioresorbable polymers for study research and applications within medicine Fundamentals of the basic principles and science behind the use of biodegradable polymers in advanced research and in medical and pharmaceutical applications are presented as are important new concepts and principles covering materials properties and computer modeling providing the reader with useful tools that will aid their own research product design and development Supported by practical application examples the scope and contents of the book provide researchers with an important reference and knowledge based educational and training aid on the basics and fundamentals of these important medical polymers Provides a practical guide to the fundamentals synthesis and processing of bioresorbable polymers in medicine Contains comprehensive coverage of material properties including unique insights into modeling degradation Written by an eclectic mix of international authors with experience in academia and industry

Tissue Engineering Using Ceramics and Polymers Aldo R. Boccaccini, P.X. Ma, 2014-06-11 The second edition of Tissue Engineering Using Ceramics and Polymers comprehensively reviews the latest advances in this area rapidly evolving area of biomaterials science Part one considers the biomaterials used for tissue engineering It introduces the properties and processing of bioactive ceramics and glasses as well as polymeric biomaterials particularly biodegradable polymer phase nanocomposites Part two reviews the advances in techniques for processing characterization and modeling of materials The topics covered range from nanoscale design in biomineralization strategies for bone tissue engineering to microscopy techniques for characterizing cells to materials for perfusion bioreactors Further carrier systems and biosensors in biomedical applications are considered Finally part three looks at the specific types of tissue and organ regeneration with chapters concerning kidney bladder peripheral nerve small intestine skeletal muscle cartilage liver and myocardial tissue engineering Important developments in collagen based tubular constructs bioceramic nanoparticles and multifunctional scaffolds for tissue engineering and drug delivery are also explained Tissue Engineering Using Ceramics and Polymers is a valuable reference tool for both academic researchers and scientists involved in biomaterials or tissue engineering including the areas of bone and soft tissue reconstruction and repair and organ regeneration Second edition comprehensively examines the latest advances in ceramic and polymers in tissue engineering Provides readers with general information on polymers and ceramics

and looks at the processing characterization and modeling Reviews the latest research and advances in tissue and organ regeneration using ceramics and polymers **Rapid Prototyping of Biomaterials** Roger Narayan,2014-02-13 Rapid Prototyping of Biomaterials Principles and Applications provides a comprehensive review of established and emerging rapid prototyping technologies such as bioprinting for medical applications Rapid prototyping also known as layer manufacturing additive manufacturing solid freeform fabrication or 3D printing can be used to create complex structures and devices for medical applications from solid powder or liquid precursors Following a useful introduction which provides an overview of the field the book explores rapid prototyping of nanoscale biomaterials biosensors artificial organs and prosthetic limbs Further chapters consider the use of rapid prototyping technologies for the processing of viable cells scaffolds and tissues With its distinguished editor and international team of renowned contributors Rapid Prototyping of Biomaterials is a useful technical resource for scientists and researchers in the biomaterials and tissue regeneration industry as well as in academia Comprehensive review of established and emerging rapid prototyping technologies such as bioprinting for medical applications Chapters explore rapid prototyping of nanoscale biomaterials biosensors artificial organs and prosthetic limbs Examines the use of rapid prototyping technologies for the processing of viable cells scaffolds and tissues Cardiac Regeneration and Repair Ren-Ke Li,Richard D. Weisel,2014-02-17 Cardiac Regeneration and Repair Volume Two reviews the use of biomaterials alone or combined with cell therapy in providing tissue engineered constructs to repair the injured heart and prevent or reverse heart failure Part one explores the variety of biomaterials available for cardiac repair including nanomaterials and hydrogels Further chapters explore the use of biomaterials to enhance stem cell therapy for restoring ventricular function and generating stem cell modified intravascular stents Part two focuses on tissue engineering for cardiac repair including chapters on decellularized biologic scaffolds synthetic scaffolds cell sheet engineering maturation of functional cardiac tissue patches vascularized engineered tissues for in vivo and in vitro applications and clinical considerations for cardiac tissue engineering Finally part three explores vascular remodeling including chapters highlighting aortic extracellular matrix remodeling cell biomaterial interactions for blood vessel formation and stem cells for tissue engineered blood vessels Cardiac Regeneration and Repair Volume Two is complemented by an initial volume covering pathology and therapies Together the two volumes of Cardiac Regeneration and Repair provide a comprehensive resource for clinicians scientists or academicians fascinated with cardiac regeneration including those interested in cell therapy tissue engineering or biomaterials Surveys the variety of biomaterials available for cardiac repair including nanomaterials and hydrogels Focuses on tissue engineering for cardiac repair including clinical considerations for cardiac tissue engineering Explores vascular remodeling highlighting aortic extracellular matrix remodeling cell biomaterial interactions for blood vessel formation and stem cells for tissue engineered blood vessels *Perspectives in Total Hip Arthroplasty* Saverio Affatato,2014-05-01 Total hip arthroplasty the most commonly performed orthopedic procedure is used to replace or

reconstruct the hip with an artificial joint Perspectives in Total Hip Arthroplasty outlines developments in technologies and biomaterials used for this procedure with a focus on the tribological interactions of the materials used Part one outlines the history of total hip arthroplasty and goes on to explore advances in techniques and biomaterials Part two focuses on the tribology of materials used to perform this procedure explaining the impact of wear on the load bearing surface a major cause of failure in hip prostheses Chapters review a range of materials including modern biomaterials hybrid materials metal ceramic and polyethylene The book also discusses the tribological interactions of these materials when used in total hip arthroplasty Perspectives in Total Hip Arthroplasty is a key resource for clinicians researchers and academics interested in the tribology of total hip arthroplasty as well as materials researchers engineers and academics concerned with the tribology of biomaterials Covers techniques from innovative surgeons and designs from multinational manufacturers as well as information on improvements in technologies and biomaterials Discusses the tribology of all the major materials used in total hip arthroplasty

Joining and Assembly of Medical Materials and Devices Y N Zhou, M D Breyer, 2013-05-31 As medical devices become more intricate with an increasing number of components made from a wide range of materials it is important that they meet stringent requirements to ensure that they are safe to be implanted and will not be rejected by the human body Joining and assembly of medical materials and devices provides a comprehensive overview of joining techniques for a range of medical materials and applications Part one provides an introduction to medical devices and joining methods with further specific chapters on microwelding methods in medical components and the effects of sterilization on medical materials and welded devices Part two focuses on medical metals and includes chapters on the joining of shape memory alloys platinum Pt alloys and stainless steel wires for implantable medical devices and evaluating the corrosion performance of metal medical device welds Part three moves on to highlight the joining and assembly of medical plastics and discusses techniques including ultrasonic welding transmission laser welding and radio frequency RF dielectric welding Finally part four discusses the joining and assembly of biomaterial and tissue implants including metal ceramic joining techniques for orthopaedic applications and tissue adhesives and sealants for surgical applications Joining and assembly of medical materials and devices is a technical guide for engineers and researchers within the medical industry professionals requiring an understanding of joining and assembly techniques in a medical setting and academics interested in this field Introduces joining methods in medical applications including microwelding and considers the effects of sterilization on the resulting joints and devices Considers the joining assembly and corrosion performance of medical metals including shape memory alloys platinum alloys and stainless steel wires Considers the joining and assembly of medical plastics including multiple welding methods bonding strategies and adhesives

Silk Biomaterials for Tissue Engineering and Regenerative Medicine Subhas C. Kundu, 2014-03-24 Silk is increasingly being used as a biomaterial for tissue engineering applications as well as sutures due to its unique mechanical and chemical properties Silk Biomaterials for Tissue Engineering and

Regenerative Medicine discusses the properties of silk that make it useful for medical purposes and its applications in this area Part one introduces silk biomaterials discussing their fundamentals and how they are processed and considering different types of silk biomaterials Part two focuses on the properties and behavior of silk biomaterials and the implications of this for their applications in biomedicine These chapters focus on topics including biodegradation bio response to silk sericin and capillary growth behavior in porous silk films Finally part three discusses the applications of silk biomaterials for tissue engineering regenerative medicine and biomedicine with chapters on the use of silk biomaterials for vertebral dental dermal and cardiac tissue engineering Silk Biomaterials for Tissue Engineering and Regenerative Medicine is an important resource for materials and tissue engineering scientists R D departments in industry and academia and academics with an interest in the fields of biomaterials and tissue engineering Discusses the properties and applications of silk for medical purposes Considers pharmaceutical and cosmeceutical applications Microfluidics and Bio-MEMS Tuhin S.

Santra,2020-11-01 The past two decades have seen rapid development of micro nanotechnologies with the integration of chemical engineering biomedical engineering chemistry and life sciences to form bio MEMS or lab on chip devices that help us perform cellular analysis in a complex micro nanofluidic environment with minimum sample consumption and have potential biomedical applications To date few books have been published in this field and researchers are unable to find specialized content This book compiles cutting edge research on cell manipulation separation and analysis using microfluidics and bio MEMS devices It illustrates the use of micro robots for biomedical applications vascularized microfluidic organs on a chip and their applications as well as DNA gene microarray biochips and their applications In addition it elaborates on neuronal cell activity in microfluidic compartments microvasculature and microarray gene patterning different physical methods for drug delivery and analysis micro nanoparticle preparation and separation in a micro nanofluidic environment and the potential biomedical applications of micro nanoparticles This book can be used by academic researchers especially those involved in biomicrofluidics and bio MEMS and undergraduate and graduate level students of bio MEMS bio nanoelectromechanical systems bio NEMS biomicrofluidics biomicrofabrications micro nanofluidics biophysics single cell analysis bionanotechnology drug delivery systems and biomedical micro nanodevices Readers can gain knowledge of different aspects of microfluidics and bio MEMS devices their design fabrication and integration and biomedical applications The book will also help biotechnology based industries where research and development is ongoing in cell based analysis diagnosis and drug screening **Material-Tissue Interfacial Phenomena** Paulette Spencer,Anil

Misra,2016-09-30 Material Tissue Interfacial Phenomena Contributions from Dental and Craniofacial Reconstructions explores the material tissue interfacial phenomena using dental and craniofacial reconstructions as a model system As the mouth is a particularly caustic environment the synthetic and or bio enabled materials used to repair damaged tissues and restore form function and esthetics to oral structures must resist a variety of physical chemical and mechanical challenges

These challenges are magnified at the interface between dissimilar structures such as the tooth material interface Interfacial reactions at the atomic molecular and nano scales initiate the failure of materials used to repair restore and reconstruct dental and craniofacial tissues Understanding the phenomena that lead to failure at the interface between dissimilar structures such as synthetic materials and biologic tissues is confounded by a variety of factors that are thoroughly discussed in this comprehensive book Provides a specific focus on the oral environment Combines clinical views and basic science into a useful reference book Presents comprehensive coverage of material interfacial phenomena within the oral environment

Nanocomposites for Musculoskeletal Tissue Regeneration Huinan H. Liu, 2016-02-23 Nanocomposites for Musculoskeletal Tissue Regeneration discusses the advanced biomaterials scientists are exploring for use as tools to mimic the structure of musculoskeletal tissues Bone and other musculoskeletal tissues naturally have a nanocomposite structure therefore nanocomposites are ideally suited as a material for replacing and regenerating these natural tissues In addition biological properties such as biointegration and the ability to tailor and dope the materials make them highly desirable for musculoskeletal tissue regeneration Provides a comprehensive discussion on the design and advancements made in the use of nanocomposites for musculoskeletal tissue regeneration Presents an In depth coverage of material properties Includes discussions on polymers ceramics and glass

Shoulder and Elbow Trauma and its Complications Michael Greiwe, 2015-07-16 Traumatic injuries to the shoulder remain a problem encountered by young and old alike Trauma surgeons and shoulder and elbow specialists are called upon daily to improve the quality of life of injured individuals by restoring function decreasing pain and returning individuals to their previous occupations and places in society Such treatment provides both humanitarian and economic impact Only recently have techniques and technology allowed surgeons to restore lives to such a degree following these injuries Still shoulder and elbow trauma remains a vexing problem for patients and surgeons alike Many injuries result in lost work and serious debility including lack of function post traumatic arthritis and pain This important textbook provides a systematic and comprehensive guide to the different types of shoulder trauma and the management of its associated complications In Part One the focus is on the most common types of shoulder trauma with chapters covering anterior instability traumatic rotator cuff tears fractures joint injuries and the floating shoulder and includes sections on the most common complications befalling each injury Part II then reviews the management of the most common complications Chapters include detailed analyses of persistent anterior shoulder instability several forms of nonunion and malunion failed acromioclavicular joint reconstruction post traumatic arthropathy and traumatic osteonecrosis and failed arthroplasty for fracture Reviews common types of shoulder trauma Addresses the common complications associated with each injury Provides a detailed guide to the management of common complications

Materials for the Direct Restoration of Teeth John Nicholson, Beata Czarnecka, 2016-09-01 Materials for the Direct Restoration of Teeth focuses on the important role teeth play in our lives and how biomaterials scientists are ensuring that

new dental materials are functional and esthetic As research in the field is shifting away from traditional materials like metal and towards more advanced materials such as resins and ceramics this book on the subject of modern materials for the direct repair of teeth provides readers with a comprehensive reference The most pertinent modern dental materials and their properties and applications for the direct restoration of teeth are presented along with case examples and guidance notes making this book an essential companion for materials scientists and clinicians Provides comprehensive coverage of conventional and modern materials for direct restoration of teeth Includes guidance notes and case examples to support dental clinicians in decision making Authored by a scientist and a clinician the book provides a balanced and complete treatise of the subject

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

Biomaterials and Medical Device - Associated Infections L Barnes, Ian Cooper, 2014-11-21 Despite advances in materials and sterilisation patients who receive biomaterials of medical device implants are still at risk of developing an infection around the implantation site This book reviews the fundamentals of biomaterials and medical device related infections and methods and materials for the treatment and prevention of infection The first part of the book provides readers with an introduction to the topic including analyses of biofilms diagnosis and treatment of infection pathology and topography The second part of the book discusses a range of established and novel technologies and materials which have been designed to prevent infection Provides analysis of biofilms and their relevance to implant associated infections Assesses technologies for controlling biofilms Considers advantages and disadvantages of in vivo infection studies

Computational Modelling of Biomechanics and Biotribology in the Musculoskeletal System Z Jin, 2014-05-05 Computational Modelling of Biomechanics and Biotribology in the Musculoskeletal System reviews how a wide range of materials are modelled and how this modelling is applied Computational modelling is increasingly important in the design and manufacture of biomedical materials as it makes it possible to predict certain implant tissue reactions degradation and wear and allows more accurate tailoring of materials properties for the in vivo environment Part I introduces generic modelling of biomechanics and biotribology with a chapter on the fundamentals of computational

modelling of biomechanics in the musculoskeletal system and a further chapter on finite element modelling in the musculoskeletal system Chapters in Part II focus on computational modelling of musculoskeletal cells and tissues including cell mechanics soft tissues and ligaments muscle biomechanics articular cartilage bone and bone remodelling and fracture processes in bones Part III highlights computational modelling of orthopedic biomaterials and interfaces including fatigue of bone cement fracture processes in orthopedic implants and cementless cup fixation in total hip arthroplasty THA Finally chapters in Part IV discuss applications of computational modelling for joint replacements and tissue scaffolds specifically hip implants knee implants and spinal implants and computer aided design and finite element modelling of bone tissue scaffolds This book is a comprehensive resource for professionals in the biomedical market materials scientists and mechanical engineers and those in academia Covers generic modelling of cells and tissues modelling of biomaterials and interfaces biomechanics and biotribology Discusses applications of modelling for joint replacements and applications of computational modelling in tissue engineering *Decontamination in Hospitals and Healthcare* James T. Walker, 2014-02-13

Decontamination in Hospitals and Healthcare brings an understanding of decontamination practices and the development of technologies for cleaning and control of infection to a wide audience interested in public health including healthcare specialists scientists students or patients Part one highlights the importance and history of decontamination in hospitals and healthcare before exploring the role of standards in decontamination infection control in Europe and future trends in the area Part two focuses on decontamination practices in hospitals and healthcare It considers the role of the nurse in decontamination the issues of microbial biofilm in waterlines control of waterborne microorganisms and the use of gaseous decontamination technologies Further chapters explore decontamination of prions the use of protective clothing no touch automated room disinfection systems and controlling the presence of microorganisms in hospitals Part three discusses practices for decontamination and sterilization of surgical instruments and endoscopes These chapters examine a range of guidance documents including the choice framework for local policy and procedures for decontamination of surgical instruments as well as novel technologies for cleaning and detection of contamination *Decontamination in Hospitals and Healthcare* provides a reference source on decontamination for public health professionals and students concerned with healthcare It is particularly useful for scientists in microbiology and disinfection decontamination laboratories healthcare workers who use disinfectants students in microbiology clinicians members of the Institute of Decontamination Sciences Central Sterilising Club and those employed in the Central Sterile Services departments of healthcare facilities Discusses decontamination processes in Europe Provides an in depth understanding into decontamination in healthcare settings specifically hospitals and dental practices Examines the decontamination of surgical equipment and endoscopes

Characterisation and Design of Tissue Scaffolds Paul Tomlins, 2015-10-30 *Characterisation and Design of Tissue Scaffolds* offers scientists a useful guide on the characterization of tissue scaffolds detailing what needs to be measured and

why how such measurements can be made and addressing industrially important issues Part one provides readers with information on the fundamental considerations in the characterization of tissue scaffolds while other sections detail how to prepare tissue scaffolds discuss techniques in characterization and present practical considerations for manufacturers Summarizes concepts and current practice in the characterization and design of tissue scaffolds Discusses design and preparation of scaffolds Details how to prepare tissue scaffolds discusses techniques in characterization and presents practical considerations for manufacturers

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