

Advances in Delivery Science and Technology

Abraham J. Domb
Wahid Khan *Editors*

Focal Controlled Drug Delivery



 Springer

Focal Controlled Drug Delivery Advances In Delivery Science And Technology

Raffaella Di Napoli



Focal Controlled Drug Delivery Advances In Delivery Science And Technology:

Focal Controlled Drug Delivery Abraham J. Domb, Wahid Khan, 2014-02-17 The concept of focal controlled drug delivery has been applied for treating illnesses that are localized to a certain tissue or organ These delivery systems are applied directly to the diseased site and deliver a desired dose for an extended time period while minimizing systemic distribution of toxic drug Controlled drug delivery systems have been focused on oral extended release formulations and on systemic delivery of small drugs and peptides Despite the upsurge of interest in focal targeted drug delivery there is currently no single reference text on the subject By comparison there are numerous authored and edited books on oral systemic and transdermal drug delivery or books on biodegradable polymers as drug carriers Thus the aim of Focal Drug Delivery is to bring together leading experts and researchers in the field to provide an authoritative account of the essential pharmaceutical technological physiological and biological sciences underpinning the topic In addition the book will review advances in treatment options for diseases localized at a certain tissue or organ

Nanocosmetics Prashant Kesharwani, Sunil Kumar Dubey, 2023-09-21 This book offers an overview of the science of cosmetics and the formulation of nanosized cosmetic products including fabrication characterization of nanocosmetics major challenges in the safe applications regulatory aspects and commercialization on a large scale The chapters provide understanding of the interaction of nanocarriers with skin and hair different nanocosmetic products in the present situation applications as well as disadvantageous toxicity associated with nanocosmetics regulatory prospects and future perspectives Features Provide an explicit account on vital aspects of various nanocosmetics drug delivery approaches thereby providing a next generation cosmetic product Bring together the novel applications of nanocosmetics approaches in the biological milieu Explores preparation applications toxicity and regulatory prospects Includes a dedicated chapter on Niosomal drug delivery systems in cosmetics Discusses the perspectives of the technologies explored so far based upon the findings outlined in highly organized tables illustrative figures and flow charts This book is aimed at researchers and professionals in nanomedicine pharmaceuticals biotechnology and the health sector

Polymers for Biomedicine Carmen Scholz, 2017-06-20 Highlighting dynamic developments in polymer synthesis this book focuses on the chemical techniques to synthesize and characterize biomedically relevant polymers and macromolecules Aids researchers developing polymers and materials for biomedical applications Describes biopolymers from a synthetic perspective which other similar books do not do Covers areas that include cationically charged macromolecules pseudo peptides polydrugs and prodrugs controlled radical polymerization self assembly polycondensates and polymers for surface modification

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 *Silicon Carbide Biotechnology* Stephen E. Saddow, 2016-03-07 Silicon Carbide Biotechnology A Biocompatible Semiconductor for Advanced Biomedical Devices and Applications Second Edition provides the latest information on this wide band gap semiconductor material that the body does not reject as a foreign i e not organic material and its potential to further advance biomedical applications SiC devices offer high power densities and low energy losses enabling lighter more compact and higher efficiency products for biocompatible and long term in vivo applications including heart stent coatings bone implant scaffolds neurological implants and sensors glucose sensors brain machine interface devices smart bone implants and organ implants This book provides the materials and biomedical engineering communities with a seminal reference book on SiC for developing technology and is a resource for practitioners eager to identify and implement advanced engineering solutions to their everyday medical problems for which they currently lack long term cost effective solutions Discusses the properties processing characterization and application of silicon carbide biomedical materials and related technology Assesses literature patents and FDA approvals for clinical trials enabling rapid assimilation of data from current disparate sources and promoting the transition from technology R D to clinical trials Includes more on applications and devices such as SiC nanowires biofunctionalized devices micro electrode arrays heart stent cardiovascular coatings and continuous glucose sensors in this new edition Bioresorbable Polymers Declan Devine, 2019-04-15 Bioresorbable implants can be processed via conventional polymer processing methods such as extrusion injection and compressing moulding solvent spinning or casting This book addresses issues and highlights recent advances in the use of biodegradable polymers It is intended for researchers utilizing biodegradable polymers in areas from tissue engineering to controlled release of active pharmaceuticals as well as industrial processors Handbook of Industrial Polyethylene and Technology Mark A. Spalding, Ananda Chatterjee, 2017-10-26 This handbook provides an exhaustive description of polyethylene The 50 chapters are written by some of the most experienced and prominent authors in the field providing a truly unique view of polyethylene The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene high density polyethylene copolymers

and polyethylene produced from metallocene catalysts With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing fillers processing aids anti fogging agents pigments and flame retardants Common processing methods including extrusion blown film cast film injection molding and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding fiber processing pipe extrusion reactive extrusion wire and cable and foaming processes The business of polyethylene including markets world capacity and future prospects are detailed This handbook provides the most current and complete technology assessments and business practices for polyethylene resins

Basic Fundamentals of Drug Delivery ,2018-11-30 Basic Fundamentals of Drug Delivery covers the fundamental principles advanced methodologies and technologies employed by pharmaceutical scientists researchers and pharmaceutical industries to transform a drug candidate or new chemical entity into a final administrable drug delivery system The book also covers various approaches involved in optimizing the therapeutic performance of a biomolecule while designing its appropriate advanced formulation Provides up to date information on translating the physicochemical properties of drugs into drug delivery systems Explores how drugs are administered via various routes such as orally parenterally transdermally or through inhalation Contains extensive references and further reading for course and self study

Sustainable Computing Shashank Awasthi,Goutam Sanyal,Carlos M. Travieso-Gonzalez,Pramod Kumar Srivastava,Dinesh Kumar Singh,Rama Kant,2023-01-01 This book presents recent advancements in Industry 4 0 and addresses how these can be useful in achieving sustainable solutions in Society 5 0 The book also serves as a reference for developing sustainable engineering solutions to various socio economic and techno commercial issues The book is meticulously structured into two sections Section I sheds light on fundamentals nitty gritty and principles of technological innovations and advancement in artificial intelligence cloud computing industrial Internet of Things IIOT and Society 5 0 whereas Section II covers viable engineering solutions developments for revamping Industry 4 0 to Society 5 0 Overall the authors aim to show how technological advancements can be used to address social issues and improve society

Orthopedic Biomaterials Bingyun Li,Thomas Webster,2018-03-22 This book covers the latest advances applications and challenges in orthopedic biomaterials Topics covered include materials for orthopedic applications including nanomaterials biomimetic materials calcium phosphates polymers biodegradable metals bone grafts implants and biomaterial mediated drug delivery Absorbable orthopedic biomaterials and challenges related to orthopedic biomaterials are covered in detail This is an ideal book for graduate and undergraduate students researchers and professionals working with orthopedic biomaterials and tissue engineering This book also Describes biodegradable metals for orthopedic applications such as Zn based medical implants Thoroughly covers various materials for orthopedic applications including absorbable orthopedic biomaterials with a focus on polymers Details the state of the art research on orthopedic nanomaterials and nanotechnology

The Molecular and Cellular Basis of Retinal Diseases Steven J. Pittler ,Steven J. Fliesler,2020-12-29 There are more than 300 genes that have been identified which carry mutations that cause various forms of retinal dysfunction and degeneration making the study of retinal diseases a subject of high relevance In this compendium of original and review articles many of the diseases and pathways associated with disorders of the retina are examined using animal models to provide the reader with a good overview of current retinal research Within this volume you will find research reports on many of the most prominent retinal disorders such as diabetic retinopathy DR age related macular degeneration AMD choroidal neovascularization CNV and retinitis pigmentosa RP We hope that the work presented here will stimulate new ideas and lead to effective treatments for retinal diseases

Biomaterial Science Ludwig Erik Aguilar,2022-08-01 This book bridges the gap between a clinician s and material scientists knowledge by elucidating upon the different biomaterials used in anatomical systems and how those materials react to the human body It explores both established and future prospective of biomaterial types designs and considerations in material selection and synthesis to guide students from non clinical background in understanding the relations of material science and the human body

Sustainable Green Nanomaterials Shrikaant Kulkarni,Megh R. Goyal,2024-11-22 Green nanomaterials are in great demand as natural substitutes to conventional chemical based eco toxic materials in fabricating numerous eco friendly products that are biodegradable and biocompatible and eco benign for a plethora of applications in biomedicine textiles agriculture and many other industries This new book Sustainable Green Nanomaterials Synthesis Characterization and Engineering Applications presents an overview of fabrication testing and utility of green nanomaterials in sustainable agriculture smart drug delivery wastewater treatment and healthcare The first section of the book is devoted to the synthesis characterization and general applications of green nanomaterials looking specifically at electrospun polymer nanofibers and carbon quantum dots The book goes on to introduce applications of green nanomaterials such as green polymeric nanocomposites green nanocarriers etc in crucial areas such as agriculture healthcare and wastewater treatment It also looks at the use of artificial intelligence and machine learning for removal of heavy metals from water using green nanomaterials A section is devoted to the applications of green nanomaterials in drug delivery for targeted drug delivery It also considers the use of nanotools for delivery of anticancer drugs This volume will be a valuable resource for academicians research scholars and others in the scientific community who are investing their time and energy in designing and developing novel state of the art and sustainable nanomaterials in tandem with meeting the objectives of sustainable development goals

ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS Mr. Nagineni Sudarshan Rao,Mr. Ravi Jayant,Prof. (Dr.) Sachin Kumar,Mr. Rahul Kumar Ancheria, Welcome to the world of Advanced Biopharmaceutics Pharmacokinetics a field that lies at the intersection of pharmaceutical science medicine and technology This book represents an exploration into the intricate mechanisms governing the fate of drugs in the human body the evolving landscape of drug delivery systems and the cutting edge methodologies shaping the

future of pharmacokinetics In the ever evolving landscape of pharmaceuticals the quest for optimizing drug delivery enhancing therapeutic efficacy and minimizing adverse effects has become increasingly complex This book seeks to unravel these complexities by delving into the advanced principles of biopharmaceutics and pharmacokinetics providing a comprehensive guide for researchers practitioners and students in the pharmaceutical sciences The journey into Advanced Biopharmaceutics Pharmacokinetics begins with a thorough examination of the fundamental concepts that underpin drug absorption distribution metabolism and excretion From there we navigate through the intricacies of drug formulation and delivery systems exploring the latest innovations in nanomedicine biosimilars and targeted drug delivery Throughout the chapters we highlight the pivotal role of pharmacokinetics in drug development emphasizing its importance in optimizing dosage regimens understanding drug interactions and individualizing therapies in the era of precision medicine The integration of advanced technologies such as systems pharmacology and therapeutic drug monitoring further enriches the discussion offering a glimpse into the future of pharmacokinetic research

New Trends in Smart Nanostructured Biomaterials in Health Sciences Gil Goncalves, Paula A.A.P. Marques, Joao F. Mano, 2022-10-07 *New Trends in Smart Nanostructured Biomaterials in Health Sciences* provides guidance on the design and synthesis of nanostructured smart biomaterials as well as the resultant therapeutic effects and associated biomedical applications of these novel materials The book provides readers with a deeper understanding of these novel biomaterials and aids them in making informed decisions when selecting appropriate materials for tissue engineering and cancer therapy applications It will be of specific interest to materials scientists biomedical engineers oncological scientists tissue engineers and those working in regenerative medicine Nanostructured smart materials have the special ability to respond to changes in the cell microenvironment allowing for robust biocompatible and rapidly adaptable therapeutic and restorative action against a range of ailments These materials are thus ideal candidates for use in tissue engineering and cancer therapy due to the varying nature of the cell microenvironment between persons tissues and cancers This book covers the design synthesis unique properties and application of smart biomaterials in these two key topic areas of tissue engineering and cancer therapeutics Presents an overview of how smart biomaterials respond to changes in physiological factors and exogenous stimuli and their impact in modern medicine Provides readers with the basis for designing processing and characterizing advanced smart biomaterials Guides the reader through the mechanisms of tissue repair and cancer therapeutics by exploring the most relevant features of smart nanostructured materials

The Textbook of Nanoneuroscience and Nanoneurosurgery Babak Kateb, John D. Heiss, John S. Yu, Ming Hsieh, 2024-11-13 This textbook highlights the exciting field of nanoneuroscience and its potential to transform how we diagnose and treat neurological disorders The Textbook of Nanoneuroscience and Nanoneurosurgery dives deep into this emerging field exploring the latest tools and techniques currently being developed at the nanoscale level Key areas of focus include Nanoplatfroms The book explores how scientists utilize materials on a near microscopic scale for

neurosurgery neurology and brain imaging applications Bridging the Gap Regulatory hurdles for translating research from the lab to real world use are addressed paving the way for future advancements The Future is Now The book showcases recent breakthroughs already impacting patient care alongside promising areas with significant potential Collaboration is Key Insights from over 220 researchers and 5000 references along with illustrative figures in B W and color provide a comprehensive overview of this dynamic field With its focus on minimally invasive procedures and the latest regulatory considerations The Textbook of Nanoneuroscience and Nanoneurosurgery equips researchers and medical professionals with the knowledge to develop groundbreaking treatments for neurological conditions The text also reviews the latest regulatory guidelines that influence the translation of nanotechnological research from the laboratory to the clinic and the most recent information on biodevices and pharmaceutical spinoffs It highlights presidential and congressional initiatives and programs that may impact the field soon Some reviews of the First edition of the textbook a significant contribution to the field of nanoneuroscience and nanoneurosurgery the reader will come away with a deeper understanding of the history of nanotechnology and medicine Neuroscience This is a monumental first textbook on nanoneurosurgery recommended reading for neurosurgeons neurologists neuroradiologists and neuroscientists involved in research on new techniques for application in neurosurgery Biomedical engineers and various companies developing instruments and devices would benefit from the wealth of information about trends for the development of new technologies for neurosurgery K K Jain MD Basel Switzerland Phenomenal body of knowledge in this book that would take eons to collate by myself Every answer to every one of my questions plus heaps more Essential reading for everyone interested in the field A must have Albert Deme This is an amazing foray into the future of a largely unexplored but increasingly critical medical domain I have learned much from every page of this captivating text and I highly recommend it to any medical student researcher medical professional in the neurosciences or anyone who has an interest in the human brain and the future of medicine to gather a glimpse of the incredible and beneficial paradigm shifts that will soon impact the field of neuroscience Frank Boehm British Columbia Canada

Natural Biopolymers for Drug Delivery Amit Kumar Nayak, Md Saquib Hasnain, Tejraj M. Aminabhavi, 2025-03-11 Natural Biopolymers for Drug Delivery thoroughly details the properties benefits and challenges of using these biomaterials in drug delivery with a strong focus on biocompatibility and reduction of unwanted interactions An extensive range of natural biopolymers are explored such as cellulose chitosan casein gelatin cashew gum and many more Biocompatibility toxicity and regulatory considerations are also thoroughly discussed ensuring the reader is fully equipped for efficient biomaterials selection and utilization in drug delivery applications This is a must have reference for those working in the fields of materials science biomedical engineering pharmaceutical science and pharmacology chemical engineering and clinical science Comprehensively covers all key natural biopolymer classes for drug delivery chapter by chapter providing a one stop shop for readers Discusses biocompatibility biodegradability and toxicity considerations as well as regulatory issues Written

by a global team of experts from a range of related fields this book offers a diverse interdisciplinary guide to natural biopolymers for drug delivery **Fundamentals and Applications of Controlled Release Drug Delivery** Juergen Siepmann, Ronald A. Siegel, Michael J. Rathbone, 2011-12-14 Pitched at a level comprehensible to those new to the field this authoritative text covers the scientific and technological fundamentals of drug delivery as well as clinical applications and the developmental potential in controlled release drug delivery

Multiscale Cell-Biomaterials Interplay in Musculoskeletal Tissue Engineering and Regenerative Medicine J. Miguel Oliveira, Rui L. Reis, Sandra Pina, 2023-11-28 Multiscale Cell Biomaterials Interplay in Musculoskeletal Tissue Engineering and Regenerative Medicine addresses the key concepts involved in the interactions between cells and biomaterials in the musculoskeletal tissue engineering and regenerative medicine field The updated developments and challenges of the mechanisms mechanobiology and structure function properties of those interactions as well as emerging technologies underlying tissue engineered scaffolding are carefully discussed Lastly cell engineering and cell based therapies growth factors drugs properties vascularization immunomodulation are also outlined Given the large number of musculoskeletal disorders and related injuries that can affect muscles bones and joints and lead to severe complications of the neuromuscular system it is imperative to develop new treatment strategies to delay or repair associated diseases and to promote optimal long term health Presents the fundamentals of the complex interplay of cells with biomaterials in musculoskeletal tissue engineering Includes coverage of stem cells and cell based therapies in vitro and in vivo models nanotechnology bioprinting computational modeling regulatory and clinical translation and much more Written by global leaders in the field

Focal Controlled Drug Delivery Advances In Delivery Science And Technology Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Focal Controlled Drug Delivery Advances In Delivery Science And Technology**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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