

PHARMACEUTICAL ENGINEERING

the practical approach

UNIT OPERATIONS

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Pharmaceutical Engineering Subramanyam

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Nanotechnology in Drug Delivery Melgardt M. de Villiers, Pornanong Aramwit, Glen S. Kwon, 2008-10-29 The reader will be introduced to various aspects of the fundamentals of nanotechnology based drug delivery systems and the application of these systems for the delivery of small molecules proteins peptides oligonucleotides and genes How these systems overcome challenges offered by biological barriers to drug absorption and drug targeting will also be described

Fiber and Textile Engineering in Drug Delivery Systems Navneet Sharma, Bhupendra Singh Butola, 2022-12-05 Fiber and Textile Engineering in Drug Delivery Systems explains how innovative textile processing methods including rotary spinning microfluidics wet spinning and electrospinning can be used to produce novel drug delivery solutions This topical book provides detailed descriptions of how to produce such new materials for this purpose with foundational content to help readers from a range of backgrounds understand the context of material selection and design decisions Emphasis is given to the engineering side of the manufacturing of the textile and its role in drug delivery but this also acts as a guide to pharmaceutical applications of textile fibers for materials scientists Drug delivery research is rapidly expanding and experimenting with new materials to drive improved clinical outcomes as the efficacy of the therapeutic molecule is highly dependent on the right choice of carrier system Recently fiber based carriers at both nano and micro scales are gaining interest in the scientific community due to ease of manufacturing high surface area to volume ratio desirable drug release kinetics and high mechanical strength Describes methods for material selection and design for drug delivery systems Provides case studies to explain how these techniques can be applied successfully Covers the regulatory and legal aspects of the use of the textiles and fibers in drug delivery

Communication Skills for Engineers C. Muralikrishna, Sunita Mishra, The second edition of Communication Skills for Engineers brings in a sound understanding and insight into the dynamics of communication in all spheres of life interpersonal social and professional The book hinges on the premise that effective communication is an outcome of using the right combination of skills alongside an appropriate attitude

Electron Microscopy in Science and Engineering Krishanu Biswas, Sri Sivakumar, Nilesh Gurao, 2022-02-09 This issue of Direction focuses on the rapid proliferation of electron microscopy EM for scientific as well as technological research The content written by leading experts is intended to provide the capabilities of EM facilities set at Indian Institute of Technology IIT Kanpur to solve various problems and caters to the needs of both internal and external users The book provides a detailed and comprehensive viewpoint of the basic features and advanced capabilities of EM facilities to the scientific community A large number of electron microscopes have been installed and utilized by researchers across various engineering and science departments hence this volume provides both breadth as well as depth of various EM facilities available at the institute

Natural Polymeric Materials based Drug Delivery Systems in Lung Diseases Harish Dureja, Jon Adams, Raimar Löbenberg, Terezinha de Jesus Andreoli Pinto, Kamal Dua, 2023-03-12 This book comprehensively reviews the recent

developments of natural polymers for drug delivery systems in various lung disorders The initial chapter provides a brief introduction to lung diseases with a focus on the current landscape of natural polymers and trends in understanding the disease pathology Several chapters of the book devoted to the latest technologies and advances in drug delivery systems include practical solutions on designing more effective drug delivery systems based on natural polymers that can be used in the management of lung diseases Further the book presents biodegradable and bio reducible natural polymers based drug delivery systems for lung diseases Towards the end the book examines future prospects and challenges of natural polymers based drug delivery systems in combating lung diseases This book is useful for phytochemists formulation drug delivery biological and translational researchers and clinicians working in the field of lung disorders *Adapting drug repurposing to overturn drug resistance in cancer* Eswar Shankar,Dharmaraja Allimuthu,Vish Subramaniam,2023-05-25

Cardiovascular Safety in Drug Development and Therapeutic Use J. Rick Turner,Dilip R. Karnad,Snehal Kothari,2016-07-28 At a time when the field of cardiac safety is going through important changes this unique book provides the rationale for and cutting edge explanations of new regulatory landscapes that will likely govern cardiac safety assessments globally for the foreseeable future Exposure response modeling is already being accepted by regulatory agencies in lieu of the traditional Thorough QT QTc Study and the Comprehensive in vitro Proarrhythmia Assay initiative is well under way Developments in the field of cardiovascular safety are also described and discussed in the book These include the search for more efficient ways to exonerate new drugs for type 2 diabetes from an unacceptable cardiovascular liability how best to address off target blood pressure increases induced by noncardiovascular drugs and the continued evolution of the discipline of Cardio oncology a resource that will likely serve as a standard for years to come Dr Jonathan Seltzer *Therapeutic Innovation* 51 2 180 I have no hesitation in recommending this book as a valuable reference source Dr Rashmi Shah *Journal for Clinical Studies* 2017 9 1 62 63

Drug Delivery Systems for Musculoskeletal Tissues Sumit Murab,2024-03-27 Musculoskeletal tissues are hard to heal if damaged by disease or trauma If damaged they cause pain and hinder regular movements of our bodies Drug delivery systems that can be used for healing and regenerating these tissues need to be specialized to bear physiological loading on these tissues while helping in controlled release of drug or biomolecules for healing the tissue This book discusses the pathology of orthopaedic diseases and the requirements of local drug delivery platforms that can help in the treatment of the pathology as well as regeneration of the tissue The book also discusses in detail the mechanical properties and support that these systems provide to the damaged musculoskeletal tissues and how long term healing and regeneration is possible This is an ideal book for students postdoctoral fellows and faculty at academic universities and industry professionals who are working on drug delivery orthopaedic diseases tissue engineering and regenerative medicine *Recent Developments in Microbiology, Biotechnology and Pharmaceutical Sciences B.* Sundaravadivazhagan,Sekar Mohan,Balakrishnaraja Rengaraju,2025-05-06 The Conference brought together innovative

academics and industrial experts in the field of Medical Biological and Pharmaceutical Sciences to a common forum The primary goal of the conference was to promote research and developmental activities in Medical Biological and Pharmaceutical Sciences Another goal was to promote scientific information interchange between researchers developers engineers students and practitioners working in and around the world

The Application of Nanoengineering in Advanced Drug Delivery and Translational Research Gan Liu,Junqing Wang,Kai Han,Jingxiao Chen,2022-04-20

Handbook on Nanobiomaterials for Therapeutics and Diagnostic Applications Anand Krishnan,Muthupandian Saravanan,Balakumar Chandrasekaran,Suvaradhan Kanchi,Sarojini Jeeva Panchu,Quan-Sheng Chen,2021-03-18 Handbook of Nano biomaterials for Therapeutics and Diagnostic Applications covers in depth topics on nano biomaterials and nano drug delivery systems biosensors and bioimaging involving polymer nanocomposites metal nanocomposites and other carbon family fibers and proteins The book covers the current application of tiny machines or nanodevices and their use as early detection systems for life threatening diseases giving detailed literature on the development of nanodevices their use as diagnostic tools and their present trend in the industry and market In addition their synthesis potential applications and future of smart nanodevices in diagnosis of diseases and their use as smart clinical devices is covered Users will find sections on recent advances in interdisciplinary research on the processing morphology structure and properties of nanostructured materials and their applications in drug delivery for various diseases such as cancer tuberculosis Alzheimer disease ophthalmic diseases and more Offers a comprehensive coverage of the therapeutics and smart nanodevices as diagnostic tools and their potential clinical applications in biosensing and bioimaging Includes a glimpse into the nano biomaterials that are essential components in nanomedicines Describes nanodevices in the early diagnosis of the diseases Explains the nano drug delivery system for the treatment of various diseases including cancer tuberculosis Alzheimer disease and ophthalmic diseases Encompasses all information starting from the design of nano biomaterials to their applications in theranostics

Humanities And Communication Skills (For The University Of Calicut) Pearson Education,2010-09

Nano-Engineering at Functional Interfaces for Multidisciplinary Applications Sai Sathish Ramamurthy,Seemesh Bhaskar,Narendra Reddy,2024-10-18 Nano Engineering at Functional Interfaces for Multi disciplinary Applications Electrochemistry Photoplasmonics Antimicrobials and Anticancer Applications provides a comprehensive overview of the fundamentals and latest advances of nano engineering strategies for the design development and fabrication of novel nanostructures for different applications in the fields of photoplasmonics and electrochemistry as well as antibacterial and anticancer research areas The book begins with an introduction to the fundamentals and characteristics of nanostructured interfaces and their associated technologies including an overview of their potential applications in different fields The following chapters present a thorough discussion of the synthesis processing and characterization methods of nanomaterials with unique functionalities suitable for energy harvesting food and textile applications electrocatalysis biomedical

applications and more It then concludes outlining research future directions and potential industrial applications Presents the advantages and impact of nano engineering in technological advances with up to date discussions on their applications Covers research directions and potential future applications of nano engineering in industry Includes case studies that illustrate important processes *Reaktive Planung in der chemischen Industrie* Ulf Neuhaus,2008-05-15 Ulf Neuhaus entwickelt ein reaktives Planungssystem das den bestehenden Ablaufplan ver ndern kann indem gezielte Anpassungen an die sich ndernden Ausgangsbedingungen vorgenommen werden **Supercritical Fluid Technology for Drug Product Development** Peter York,Uday B. Kompella,Boris Y. Shekunov,2004-03-23 Interconnecting the fundamentals of supercritical fluid SCF technologies their current and anticipated utility in drug delivery and process engineering advances from related methodological domains and pharmaceutical applications this volume unlocks the potential of supercritical fluids to further the development of improved pharmaceutical prod **International Books in Print** ,1991 Advances in Phytonanotechnology for Treatment of Various Diseases Prashant Kesharwani,Virendra Gajbhiye,2023-09-29 Several plant bioactives or plant derived therapeutic molecules have been used against life threatening diseases and their nanoparticle mediated delivery greatly improves therapeutic efficacy Advances in Phytonanotechnology for Treatment of Various Diseases aims to describe past and recent advances achieved in the field of phytonanotechnology The chapters of this book provide thorough knowledge of medicinal plants plant bioactives plant extract based nanoparticle synthesis delivery of plant bioactives through nanoparticles and their therapeutic activity against life threatening diseases This book focuses on the therapeutic activity of phytocomponents present in plants from diverse families genera and species The book also covers future aspects and challenges present in phytonanotechnology for curing human diseases This book fulfils the thrust of researchers working in this field which further encourages them to make new discoveries in this area and support the development of effective nanoparticle mediated plant bioactive delivery platforms for treating human diseases Key Features Provides information on medicinal plants and plant bioactives used in the treatment of various life threatening diseases Covers green synthesis of nanoparticles as well as their toxicological and biological effects Explores various nanocarriers routinely used in the delivery of plant bioactives and their efficacy for future drug delivery Envisages future opportunities challenges and implementation made in phytonanotechnology based treatment of human diseases *Chemical Engineering Progress* ,1997 *Handbook of Metallonutraceuticals* Yashwant Vishnupant Pathak,Jayant N. Lokhande,2014-04-28 The nutritional and medicinal value of metals such as zinc calcium and iron has been known in traditional medicine for a long time Other metals such as silver and gold may also have therapeutic and health benefits Ancient medicines have long incorporated their use in the treatment of diseases and they have also more recently been explored for treatment in allopathic medicine birthing the concept of metallonutraceuticals The challenge of using metals in the human body is to find forms that are safe and effective Handbook of Metallonutraceuticals presents basic concepts related to the nutritional and

therapeutic use of metals product development strategies and some ideas ready to be applied for condition specific metallonutraceuticals The book begins with an overview of the nutraceuticals field and the need for metallonutraceuticals It considers the roles of various metals in metabolism reviews the ethnopharmacology and ethnomedicine of metals and covers the characterization and possible properties of metallonutraceuticals It also examines bioavailability and drug interactions and therapeutic applications of nanometals including use as imaging agents in cancer diagnosis and treatment as antibacterials and antivirals in ocular disease and in neurodegenerative diseases The book explores the use of metals in traditional Chinese medicine potential applications for metalloenzymes the use of nanosilver in nutraceuticals and the potential of gold nanoparticles as a drug delivery system In addition it addresses intellectual property rights and regulatory considerations regarding metallonutraceuticals Using an interdisciplinary approach this user friendly text provides a knowledge base and inspiration for new research in this exciting field

Encyclopedia of Sustainable Technologies Martin Abraham, 2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

Unveiling the Energy of Verbal Art: An Mental Sojourn through **Pharmaceutical Engineering Subramanyam**

In some sort of inundated with displays and the cacophony of instant communication, the profound energy and psychological resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the regular barrage of noise and distractions. Yet, situated within the lyrical pages of **Pharmaceutical Engineering Subramanyam**, a fascinating perform of literary splendor that pulses with organic feelings, lies an remarkable trip waiting to be embarked upon. Written with a virtuoso wordsmith, that exciting opus books viewers on a psychological odyssey, lightly revealing the latent possible and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is main subjects, dissect their captivating publishing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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