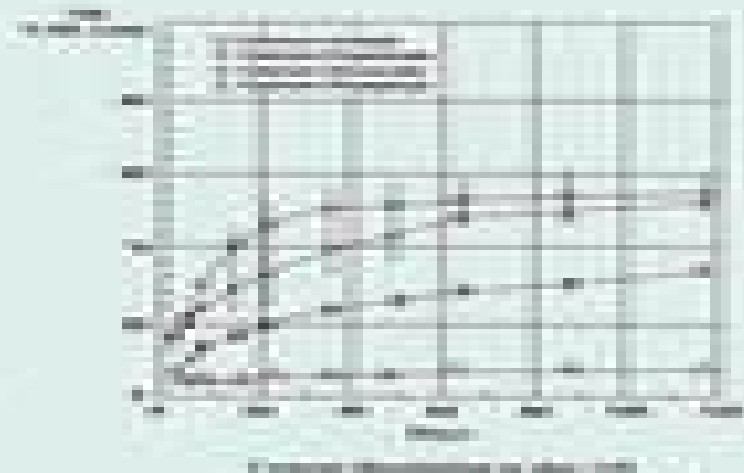


Handbook of Pharmaceutical Controlled Release Technology



edited by
Donald L. Wise

Handbook Of Pharmaceutical Controlled Release Technology Handbook Of Pharmaceutical Controlled Release Technology

**Sachin Namdeo Kothawade, Vishal
Vijay Pande**



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Qiu, Yisheng Chen, Geoff G.Z. Zhang, Lirong Liu, William Porter, 2009-03-10 Developing Solid Oral Dosage Forms is intended for pharmaceutical professionals engaged in research and development of oral dosage forms It covers essential principles of physical pharmacy biopharmaceutics and industrial pharmacy as well as various aspects of state of the art techniques and approaches in pharmaceutical sciences and technologies along with examples and or case studies in product development The objective of this book is to offer updated or current knowledge and skills required for rational oral product design and development The specific goals are to provide readers with Basics of modern theories of physical pharmacy biopharmaceutics and industrial pharmacy and their applications throughout the entire process of research and development of oral dosage forms Tools and approaches of preformulation investigation formulation process design characterization and scale up in pharmaceutical sciences and technologies New developments challenges trends opportunities intellectual property issues and regulations in solid product development The first book ever that provides comprehensive and in depth coverage of what is required for developing high quality pharmaceutical products to meet international standards It covers a broad scope of topics that encompass the entire spectrum of solid dosage form development for the global market including the most updated science and technologies practice applications regulation intellectual property protection and new development trends with case studies in every chapter A strong team of more than 50 well established authors co authors of diverse

background knowledge skills and experience from industry academia and regulatory agencies

Inorganic Controlled Release Technology Xiang Zhang, Mark Cresswell, 2015-08-28 Inorganic Controlled Release Technology Materials and Concepts for Advanced Drug Formulation provides a practical guide to the use and applications of inorganic controlled release technology iCRT for drug delivery and other healthcare applications focusing on newly developed inorganic materials such as bioresorbable glasses and bioceramics The use of these materials is introduced for a wide range of applications that cover inorganic drug delivery systems for new drug development and the reformulation of existing drugs The book describes basic concepts principles and industrial practices by discussing materials chemistry physics nano microstructure formulation materials processing and case studies as well as the evaluation and characterization of iCRT systems commonly investigated during industrial R D Provides the first book on inorganic controlled release technology iCRT covering key aspects from chemistry physics synthetic methods formulation design characterization and evaluation Includes several industry related case studies to provide practical guidance on how to use iCRT as an alternative to organic polymers systems for both future drug developments and other active ingredient applications Demonstrates how iCRT offers an unmet business need for improved controlled release of actives versus traditional CRT systems which are known to have difficulty with the controlled delivery of both poorly and highly water soluble drug compounds

Controlled Release in Oral Drug Delivery Clive G. Wilson, Patrick J. Crowley, 2011-09-22 Controlled Release in Oral Drug Delivery provides focus on specific topics complementing other books in the initial CRS series Each chapter sets the context for the inventions described and describe the latitude that the inventions allow In order to provide some similar look to each chapter the coverage includes the historical overview candidate drugs factors influencing design and development formulation and manufacturing and delivery system design This volume was written along three main sections the relevant anatomy and physiology a discussion on candidates for oral drug delivery and the major three groups of controlled release systems diffusion control swelling and inert matrices environmental control pH sensitive coatings time control enzymatic control pressure control and finally lipidic systems

Oral Drug Delivery for Modified Release Formulations Edmund S. Kostewicz, Maria Vertzoni, Heather A. E. Benson, Michael S. Roberts, 2022-04-04 ORAL DRUG DELIVERY FOR MODIFIED RELEASE FORMULATIONS Provides pharmaceutical development scientists with a detailed reference guide for the development of MR formulations Oral Drug Delivery for Modified Release Formulations is an up to date review of the key aspects of oral absorption from modified release MR dosage forms This edited volume provides in depth coverage of the physiological factors that influence drug release and of the design and evaluation of MR formulations Divided into three sections the book begins by describing the gastrointestinal tract GIT and detailing the conditions and absorption processes occurring in the GIT that determine a formulation s oral bioavailability The second section explores the design of modified release formulations covering early drug substance testing the biopharmaceutics classification system an array of formulation technologies that can be used for MR

dosage forms and more The final section focuses on in vitro in silico and in vivo evaluation and regulatory considerations for MR formulations Topics include biorelevant dissolution testing preclinical evaluation and physiologically based pharmacokinetic modelling PBPK of in vivo behaviour Featuring contributions from leading researchers with expertise in the different aspects of MR formulations this volume Provides authoritative coverage of physiology physicochemical determinants and in vitro in vivo correlation IVIVC Explains the different types of MR formulations and defines the key terms used in the field Discusses the present status of MR technologies and identifies current gaps in research Includes a summary of regulatory guidelines from both the US and the EU Shares industrial experiences and perspectives on the evaluation of MR dosage formulations Oral Drug Delivery for Modified Release Formulations is an invaluable reference and guide for researchers industrial scientists and graduate students in general areas of drug delivery including pharmaceuticals pharmaceutical sciences biomedical engineering polymer and materials science and chemical and biochemical engineering

Handbook of Membrane Separations Anil Kumar Pabby, Syed S.H. Rizvi, Ana Maria Sastre Requena, 2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explores

Modified-Release Drug Delivery Technology Michael Rathbone, Jonathan Hadgraft, Michael S. Roberts, Majella E. Lane, 2008-05-28 This two volume Second Edition describes the anatomical physiological pharmaceutical and technological aspects of delivery routes found in areas like Oral Ocular Dermal and transdermal Vaginal Colonic Oral mucosal Nasal Pulmonary Providing insight and critical assessment of the many available and emerging modified release drug delivery systems for

Adaptive Power Quality for Power Management Units using Smart Technologies Arti Vaish, Pankaj Kumar Goswami, Surbhi Bhatia, Mokhtar Shouran, 2023-10-09 This book covers issues associated with smart systems due to the presence of onboard nonlinear components It discusses the advanced architecture of smart systems for power management units It explores issues of power management and identifies hazardous signals in the power management units of smart devices It Presents adaptive artificial intelligence and machine learning based control strategies Discusses advanced simulations and data synthesis for various power management issues Showcases solutions to the uncertainty and reliability issues in power management units Identifies new power quality challenges in smart devices Explains hybrid active power filters shunt hybrid active power filters and the industrial internet of things in power quality management This book comprehensively discusses advancements of traditional electrical grids the benefits of smart grids to customers and stakeholders properties of smart grids smart grid architecture smart grid communication and smart grid security It further covers the architecture of advanced power management units PMU of smart devices and the identification of harmonic distortions with respect to various sensor based technology It will serve as an ideal reference text for senior undergraduate

and graduate students and academic researchers in fields including electrical engineering electronics communications engineering and computer engineering Oral Controlled Release Formulation Design and Drug Delivery Hong Wen, Kinam Park, 2011-01-14 This book describes the theories applications and challenges for different oral controlled release formulations This book differs from most in its focus on oral controlled release formulation design and process development It also covers the related areas like preformulation biopharmaceutics in vitro in vivo correlations IVIVC quality by design QbD and regulatory issues *Controlled Drug Delivery* M A Mateescu, P Ispas-Szabo, E Assaad, 2014-12-09 In complex macromolecules minor modifications can generate major changes due to self assembling capacities of macromolecular or supramolecular networks Controlled Drug Delivery highlights how the multifunctionality of several materials can be achieved and valorized for pharmaceutical and biopharmaceutical applications Topics covered in this comprehensive book include the concept of self assembling starch and derivatives as pharmaceutical excipients and chitosan and derivatives as biomaterials and as pharmaceutical excipients Later chapters discuss polyelectrolyte complexes as excipients for oral administration and natural semi synthetic and synthetic materials Closing chapters cover protein protein associative interactions and their involvement in bioformulations self assembling materials implants and xenografts and provide conclusions and perspectives Offers novel perspectives of a new concept how minor alterations can induce major self stabilization by cumulative forces exerted at short and long distances Gives guidance on how to approach modifications of biopolymers for drug delivery systems and materials for implants Describes structure properties relationships in proposed excipients drug delivery systems and biomedical materials *Polymers in Modern Medicine (Part 1)* Sachin Namdeo Kothawade, Vishal Vijay Pande, 2024-12-11 Polymers in Modern Medicine Part 1 offers an in depth exploration of the transformative role of polymers in healthcare and medical innovation This comprehensive book examines the diverse applications of polymeric materials in areas such as controlled drug delivery tissue engineering diagnostics regenerative medicine and personalized therapies With chapters spanning polymeric scaffolds nanotechnology smart polymers biopolymers and polymer based implants it provides detailed insights into the science and technology shaping modern medicine The book also highlights cutting edge advancements in polymeric coatings for medical devices cancer nanomedicine and vaccine development emphasizing sustainability and biocompatibility Key Features Latest advancements in polymer nanotechnology scaffolds hydrogels and smart polymers Applications in drug delivery prosthetics diagnostics and regenerative medicine Discusses biocompatible sustainable and personalized polymeric materials Bridges the gap between academia industry and clinical research

Microencapsulation Simon Benita, 2005-11-01 Presenting breakthrough research pertinent to scientists in a wide range of disciplines from medicine and biotechnology to cosmetics and pharmacy this Second Edition provides practical approaches to complex formulation problems encountered in the development of particulate delivery systems at the micro and nano size level Completely revised and e *Polymeric Biomaterials* Severian Dumitriu, Valentin I. Popa, 2013 The third edition of a

bestseller this substantially expanded reference now in two volumes presents the latest polymer developments and most up to date applications of polymeric biomaterials in medicine This volume addresses the processing of polymeric biomaterials into specific forms that ensure biocompatibility and biodegradability for various uses in the medical and pharmaceutical arenas It covers applications such as drug delivery tissue engineering anticancer therapies hydrogels and bioartificial organs This comprehensive resource includes state of the art research and successful breakthroughs in applications that have occurred in the last ten years

Polysaccharide Based Graft Copolymers Susheel Kalia,M.W. Sabaa,2013-05-23 Renowned experts give all essential aspects of the techniques and applications of graft copolymers based on polysaccharides Polysaccharides are the most abundant natural organic materials and polysaccharide based graft copolymers are of great importance and widely used in various fields Natural polysaccharides have recently received more attention due to their advantages over synthetic polymers by being non toxic biodegradable and available at low cost Modification of polysaccharides through graft copolymerization improves the properties of polysaccharides Grafting is known to improve the characteristic properties of the backbones Such properties include water repellency thermal stability flame resistance dye ability and resistance towards acid base attack and abrasion Polysaccharides and their graft copolymers find extensive applications in diversified fields Applications of modified polysaccharides include drug delivery devices controlled release of fungicides selective water absorption from oil water emulsions purification of water etc

Understanding Drug Release and Absorption Mechanisms Mario Grassi,Gabriele Grassi,Romano Lapasin,Italo Colombo,2006-12-26 Demand for better reliability from drug delivery systems has caused designers and researchers to move away from trial and error approaches and toward model based methods of product development Developing such models requires cross disciplinary physical mathematical and physiological knowledge Combining these areas under a single cover Under

Nanotechnology for Drug Delivery and Pharmaceuticals Ravindra Pratap Singh,Kshitij RB Singh,Jay Singh,Charles Oluwaseun Adetunji,2023-01-10 Nanotechnology for Drug Delivery and Pharmaceutical Sciences presents various drug delivery techniques that utilize nanotechnology for the biomedical domain highlighting both therapeutic and diagnostic applications The book provides important facts and detailed studies on different promising nanocarriers like liposomes exosomes and virus based nanocarriers Moreover it explores these nanocarriers utilization in the therapeutic applications of various diseases such as cancer inflammation neurodegenerative disorders like Huntington s disease Alzheimer s disease human immunodeficiency virus HIV and inflammatory bowel disease In addition the book describes how nanotechnology has efficiently overtaken conventional dosage forms and provided comfort and ease to patients Relevant information regarding market trends patents and social economic factors are also provided making this the perfect reference for doctors researchers and scientists working in the fields of medicine biochemistry biotechnology nanobiotechnology and the pharmaceutical sciences Gives a brief description of the utilization of nanotechnology in the drug delivery domain Highlights

the properties of nanocarriers their diagnostic and imaging applications and their potential role in clinical diagnosis Focuses on future developments and possibilities allowing readers to enhance and explore the remaining gaps **Concise**

Encyclopedia of Biomedical Polymers and Polymeric Biomaterials Munmaya Mishra,2017-08-16 The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11 volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia The carefully culled content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials

Acknowledging the evolving nature of the field the encyclopedia also features newly added content in areas such as tissue engineering tissue repair and reconstruction and biomimetic materials **Marine Biomaterials** Se-Kwon Kim,2013-04-11

Oceans are an abundant source of diverse biomaterials with potential for an array of uses Marine Biomaterials Characterization Isolation and Applications brings together the wide range of research in this important area including the latest developments and applications from preliminary research to clinical trials The book is divided into four parts with chapters written by experts from around the world Biomaterials described come from a variety of marine sources such as fish algae microorganisms crustaceans and mollusks Part I covers the isolation and characterization of marine biomaterials bioceramics biopolymers fatty acids toxins and pigments nanoparticles and adhesive materials It also describes problems that may be encountered in the process as well as possible solutions Part II looks at biological activities of marine biomaterials including polysaccharides biotoxins and peptides Chapters examine health benefits of the biomaterials such as antiviral activity antidiabetic properties anticoagulant and anti allergic effects and more Part III discusses biomedical applications of marine biomaterials including nanocomposites and describes applications of various materials in tissue engineering and drug delivery Part IV explores commercialization of marine derived biomaterials marine polysaccharides and marine enzymes and examines industry perspectives and applications This book covers the key aspects of available marine biomaterials for biological and biomedical applications and presents techniques that can be used for future isolation of novel materials from marine sources *Engineering Crystallography: From Molecule to Crystal to Functional Form* Kevin J.

Roberts,Robert Docherty,Rui Tamura,2017-07-18 This book highlights the current state of the art regarding the application of applied crystallographic methodologies for understanding predicting and controlling the transformation from the molecular to crystalline state with the latter exhibiting pre defined properties This philosophy is built around the fundamental principles underpinning the three inter connected themes of Form what Formation how and Function why Topics covered include molecular and crystal structure chirality and ferromagnetism supramolecular assembly defects and reactivity morphology and surface energetics Approaches for preparing crystals and nano crystals with novel physical chemical and mechanical properties include crystallisation seeding phase diagrams polymorphic control chiral separation

ultrasonic techniques and mechano chemistry The vision is realised through examination of a range of advanced analytical characterisation techniques including in situ studies The work is underpinned through an unprecedented structural perspective of molecular features solid state packing arrangements and surface energetics as well as in situ studies This work will be of interest to researchers industrialists intellectual property specialists and policy makers interested in the latest developments in the design and supply of advanced high added value organic solid form materials and product composites

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