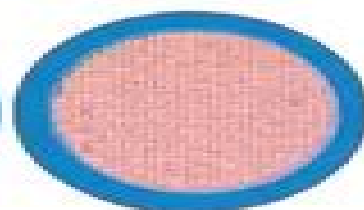
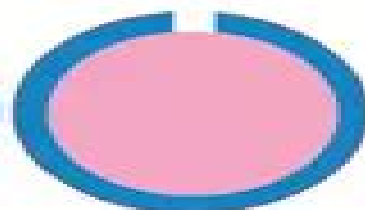
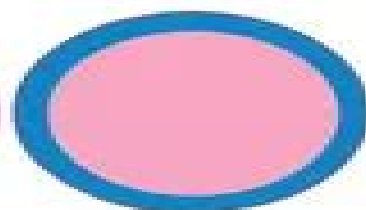
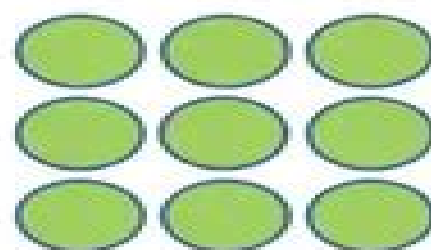
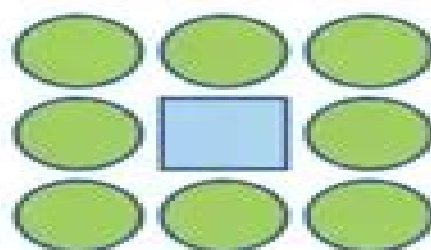
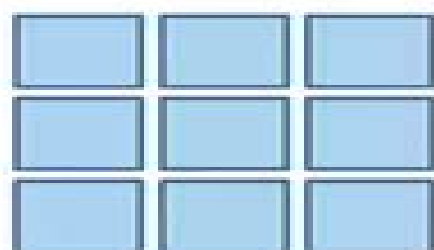


Oral Controlled Release Formulation Design and Drug Delivery

Theory to Practice

Edited by

Hong Wen and Kinam Park



Oral Controlled Release Formulation Design And Drug Delivery Theory To Practice

Ashim Mitra, Chi H. Lee, Kun Cheng



Oral Controlled Release Formulation Design And Drug Delivery Theory To Practice:

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

Fundamentals of Drug Delivery Heather A. E. Benson, Michael S. Roberts, Adrian C. Williams, Xiaowen Liang, 2021-09-30 A comprehensive guide to the current research major challenges and future prospects of controlled drug delivery systems Controlled drug delivery has the potential to significantly improve therapeutic outcomes increase clinical benefits and enhance the safety of drugs in a wide range of diseases and health conditions Fundamentals of Drug Delivery provides comprehensive and up to date coverage of the essential principles and processes of modern controlled drug delivery systems Featuring contributions by respected researchers clinicians and pharmaceutical industry professionals this edited volume reviews the latest research in the field and addresses the many issues central to the development of effective controlled drug delivery Divided in three parts the book begins by introducing the concept of drug delivery and discussing both challenges and opportunities within the rapidly evolving field The second section presents an in depth critique of the common administration routes for controlled drug delivery including delivery through skin the lungs and via ocular nasal and otic routes The concluding section summarizes the current state of the field and examines specific issues in drug delivery and advanced delivery technologies such as the use of nanotechnology in dermal drug delivery and advanced drug delivery systems for biologics This authoritative resource Covers each main stage of the drug development process including selecting pharmaceutical candidates and evaluating their physicochemical characteristics Describes the role and application of mathematical modelling and the influence of drug transporters in pharmacokinetics and drug disposition Details the physiology and barriers to drug delivery for each administration route Presents a historical perspective and a look into the possible future of advanced drug delivery systems Explores nanotechnology and cell mediated drug delivery including applications for targeted delivery and toxicological and safety issues Includes comprehensive references and links to the primary literature Edited by a team of internationally recognized experts Fundamentals of Drug Delivery is essential reading for researchers industrial scientists and advanced students in all areas of drug delivery including pharmaceuticals pharmaceutical sciences biomedical engineering polymer and materials science and chemical and biochemical engineering

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

Engineering Polymer Systems for Improved Drug Delivery Rebecca A. Bader, David A. Putnam, 2014-01-17 Polymers have played a critical role in the rational design and application of drug delivery systems that increase the efficacy and reduce the toxicity of new and conventional therapeutics Beginning with an introduction to the fundamentals of drug delivery Engineering Polymer Systems for Improved Drug Delivery explores traditional drug delivery techniques as well as emerging advanced drug delivery techniques By reviewing many types of polymeric drug delivery systems and including key points worked examples and homework problems this book will serve as a guide to for specialists and non specialists as well as a graduate level text for drug delivery courses Novel Carrier Systems for Targeted and Controlled Drug Delivery Awesh K. Yadav, Keerti Jain, 2024-12-23 The book presents novel carrier systems for the targeted and controlled drug delivery for the treatment of various diseases which are difficult to be treated with conventional drug delivery systems like cancer autoimmune disorders and emerging infectious diseases It also reviews the origins and applications of stimuli responsive polymer systems and polymer therapeutics such as polymer protein and polymer drug conjugates The book also explores the potential applications of the parenteral route of administration for the delivery of active pharmaceutical substances with a narrow therapeutic index and poor bioavailability Further the book presents common routes of administration for the systemic delivery of peptides and proteins It also examines the applications of various implantable systems in drug delivery The book also covers the important colloidal drug delivery systems including liposomes and niosomes and solid lipid

nanoparticles and nanostructured lipid carriers Towards the end the book discusses the therapeutic potential of biodegradable polymeric nanoparticles for controlled drug delivery Authoritative and thorough this book is a valuable resource for researchers working on a multidisciplinary approach to employing drug delivery systems **Pharmaceutical Techniques in Drug Delivery** Kranthi Kumar K.,2025-09-04 Embark on a groundbreaking journey through the cutting edge world of drug delivery systems with this book Explore the innovative technologies shaping the future of medicine as we know it promising to revolutionize the way we heal Delve into the realm of targeted drug delivery unlocking the potential to enhance therapeutic outcomes while minimizing unwanted side effects Discover the power of precision medicine and personalized treatments that hold the key to a brighter healthier tomorrow Whether you re a healthcare professional researcher or simply curious about the future of pharmaceuticals this book is a must read for anyone seeking to stay ahead of the curve in modern healthcare *Chitin-Chitosan* Rajendra Dongre,2018-07-18 Chitin is the second most abundant biopolymer after cellulose and is a resourceful copious and cheap biomaterial discovered in 1859 owing to significant industrial and technological utility Raw chitin chitosan resembles keratin in its biological functions Chitin chemistry vastly developed via innate unparalleled biological features and exceptional physicochemical characters Chitosan endures assorted chemical physical modifications easily at free proactive functionalities yet intact bulk properties are achieved through processing viz film membrane composite hybrid nanofibre nanoparticle hydrogel and scaffolds Rapidly lessen bioresources signify chitosan as an option due to renewable eco friendliness and drive embryonic myriad applications in S *Developing Solid Oral Dosage Forms* Yihong Qiu,Yisheng Chen,Geoff G.Z. Zhang,Lawrence Yu,Rao V. Mantri,2016-11-08 Developing Solid Oral Dosage Forms Pharmaceutical Theory and Practice Second Edition illustrates how to develop high quality safe and effective pharmaceutical products by discussing the latest techniques tools and scientific advances in preformulation investigation formulation process design characterization scale up and production operations This book covers the essential principles of physical pharmacy biopharmaceutics and industrial pharmacy and their application to the research and development process of oral dosage forms Chapters have been added combined deleted and completely revised as necessary to produce a comprehensive well organized valuable reference for industry professionals and academics engaged in all aspects of the development process New and important topics include spray drying amorphous solid dispersion using hot melt extrusion modeling and simulation bioequivalence of complex modified released dosage forms biowaivers and much more Written and edited by an international team of leading experts with experience and knowledge across industry academia and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon predictive biopharmaceutics and pharmacokinetics the development of formulations for drug discovery support and much more Presents new case studies throughout and a section completely devoted to regulatory aspects including global product regulation and international perspectives **Dosage Forms - Emerging Trends and Prospective Drug-Delivery**

Systems ,2025-03-05 Researchers have always been fascinated with creating new materials and composites with novel structures and specialized functional capabilities In the drug discovery process approximately 90% of the new chemical entities are water insoluble or low permeable and about 40% of the market approved drugs are poorly water soluble Limitations related to solubility stability drug resistance and adverse effects of the developed drugs have dug out the opportunity and encouraged focused research on drug delivery systems at the molecular level as targeted drug delivery systems Scientific advancements and techniques have developed several drug delivery systems This book comprises chapters authored by various researchers and edited by experts active in the pharmaceutical research area All the chapters are complete and united under a common research study This publication aims to provide a thorough overview of the latest research in drug delivery systems and related issues It also cracked new possible research paths in drug delivery systems for further novel developments Burger's Medicinal Chemistry, Drug Discovery and Development, 8 Volume Set ,2021-04-20

Burger s Medicinal Chemistry Drug Discovery and Development Explore the freshly updated flagship reference for medicinal chemists and pharmaceutical professionals The newly revised eighth edition of the eight volume Burger s Medicinal Chemistry Drug Discovery and Development is the latest installment in this celebrated series covering the entirety of the drug development and discovery process With the addition of expert editors in each subject area this eight volume set adds 35 chapters to the extensive existing chapters New additions include analyses of opioid addiction treatments antibody and gene therapy for cancer blood brain barrier HIV treatments and industrial academic collaboration structures Along with the incorporation of practical material on drug hunting the set features sections on drug discovery drug development cardiovascular diseases metabolic diseases immunology cancer anti Infectives and CNS disorders The text continues the legacy of previous volumes in the series by providing recognized renowned authoritative and comprehensive information in the area of drug discovery and development while adding cutting edge new material on issues like the use of artificial intelligence in medicinal chemistry Included Volume 1 Methods in Drug Discovery edited by Kent D Stewart Volume 2 Discovering Lead Molecules edited by Kent D Stewart Volume 3 Drug Development edited by Ramnarayan S Randad and Michael Myers Volume 4 Cardiovascular Endocrine and Metabolic Diseases edited by Scott D Edmondson Volume 5 Pulmonary Bone Immunology Vitamins and Autocoid Therapeutic Agents edited by Bryan H Norman Volume 6 Cancer edited by Barry Gold and Donna M Huryn Volume 7 Anti Infectives edited by Roland E Dolle Volume 8 CNS Disorders edited by Richard A Glennon Perfect for research departments in the pharmaceutical and biotechnology industries Burger s Medicinal Chemistry Drug Discovery and Development can be used by graduate students seeking a one stop reference for drug development and discovery and deserves its place in the libraries of biomedical research institutes medical pharmaceutical and veterinary schools **Electrospraying and Electrospinning in Drug Delivery** Mulham Alfatama,Abid Mehmood

Yousaf,Abd Almonem Doolaanea,Yasser Shahzad,2025-10-06 Electrospraying and electrospinning have emerged as powerful

techniques for the fabrication of drug loaded nano and microstructures offering precise control over particle size morphology and drug release kinetics Electrospinning and Electrospraying in Drug Delivery provides a comprehensive overview of the principles and latest advancements methodologies and applications of electrospinning and electrospraying techniques in the field of drug delivery It encompasses a wide array of topics including but not limited to targeted drug delivery systems controlled release formulations stimuli responsive materials and biomedical applications Describes the most recent and successful applications of electrospinning electrospraying in drug delivery Covers fundamental principles instrumentation process parameters and optimization strategies Delves into the diverse range of materials employed in electrospinning and electrospraying such as polymers ceramics and metals highlighting their unique advantages and applications in drug delivery Explores the incorporation of functional additives such as nanoparticles and biomolecules to tailor the properties and performance of electrospun electrosprayed drug delivery platforms By compiling contributions from leading experts in the field this edited volume fosters interdisciplinary collaboration and inspires further research endeavors The book will serve as a valuable resource for researchers academicians and professionals interested in understanding and utilizing these innovative techniques for enhanced drug delivery systems

Drug Delivery (book) Ashim K. Mitra, Deep Kwatra, Aswani Dutt Vadlapudi, 2014-08-08 Drug Delivery is the latest and most up to date text on drug delivery and offers an excellent working foundation for students and clinicians in health professions and graduate students including nursing pharmacy medicine dentistry as well as researchers and scientists Presenting this complex content in an organized and concise format Drug Delivery allows students to gain a strong understanding of the key concepts of drug delivery This text focuses on the basic concepts of drug delivery while thoroughly examining various topics such as CNS delivery Gene delivery Ocular delivery World wide research on drug delivery Recent advances in drug delivery A significant advancement has been made in the field of drug delivery This text provides a detailed overview of drug delivery systems routes of drug administration and development of various formulations The cutting edge research being carried out in this field will be compiled and a focus on worldwide research on drug delivery and targeting at the molecular cellular and organ levels will also be summarized Each new print copy includes access to the Navigate Companion Website including Chapter Quizzes Interactive Glossary Crossword Puzzles Interactive Flashcards and Matching Exercises

Particles and Nanoparticles in Pharmaceutical Products Henk G. Merkus, Gabriel M. H. Meesters, Wim Oostra, 2018-09-06 This edited volume brings together the expertise of numerous specialists on the topic of particles their physical chemical pharmacological and toxicological characteristics when they are a component of pharmaceutical products and formulations The book discusses in detail properties such as the composition size shape surface properties and porosity of particles with respect to how they impact the formulations and products in which they are used and the effective delivery of pharmaceutical active ingredients It considers all dosage forms of pharmaceuticals involving particles from powders to tablets creams to ointments and solutions to dry powder inhalers also

including the latest nanomedicine products Further it discusses examples of particle toxicity as well as the important subject of pharmaceutical industry regulations guidelines and legislation The book is of interest to researchers and practitioners who work on testing and developing pharmaceutical dosage and delivery systems

Melt Extrusion Michael A. Repka,Nigel Langley,James DiNunzio,2013-10-11 This volume provides readers with the basic principles and fundamentals of extrusion technology and a detailed description of the practical applications of a variety of extrusion processes including various pharma grade extruders In addition the downstream production of films pellets and tablets for example for oral and other delivery routes are presented and discussed utilizing melt extrusion This book is the first of its kind that discusses extensively the well developed science of extrusion technology as applied to pharmaceutical drug product development and manufacturing By covering a wide range of relevant topics the text brings together all technical information necessary to develop and market pharmaceutical dosage forms that meet current quality and regulatory requirements As extrusion technology continues to be refined further usage of extruder systems and the array of applications will continue to expand but the core technologies will remain the same

Advanced Drug Delivery Ashim Mitra,Chi H. Lee,Kun Cheng,2013-08-26 Provides both fundamentals and new and emerging applications Advanced Drug Delivery brings readers fully up to date with the state of the science presenting the basics formulation strategies and therapeutic applications of advanced drug delivery The book demonstrates how core concepts of pharmaceutical sciences chemistry and molecular biology can be combined and applied in order to spark novel ideas to design and develop advanced drug delivery systems for the treatment of a broad range of human diseases Advanced Drug Delivery features contributions from an international team of pharmaceutical scientists Chapters reflect a thorough review and analysis of the literature as well as the authors firsthand experience developing drug delivery systems The book is divided into four parts Part I Introduction and Basics of Advanced Drug Delivery explores physiological barriers stability transporters and biomaterials in drug delivery Part II Strategies for Advanced Drug Delivery offers tested and proven strategies for advanced delivery of both small molecules and macromolecules Part III Translational Research of Advanced Drug Delivery focuses on regulatory considerations and translational applications of advanced drug delivery systems for the treatment of cardiovascular diseases cancer sexually transmitted diseases ophthalmic diseases and brain diseases Part IV Future Applications of Advanced Drug Delivery in Emerging Research Areas examines stem cell research cell based therapeutics tissue engineering and molecular imaging Each chapter provides objectives and assessment questions to help readers grasp key concepts and assess their knowledge as they progress through the book Advanced Drug Delivery is recommended for graduates and upper level undergraduates in the pharmaceutical sciences who need a solid foundation in the basics It is also recommended for pharmaceutical professionals who want to take advantage of new and emerging applications in advanced drug delivery systems

Additive Manufacturing Kun Zhou,2022-10-31 This book focuses on the advances of additive manufacturing in the applications of

wearable electronics energy storage biomedical implants and devices drug delivery and technologies for 4D printing large scale printing and ceramics printing It provides timely insights into the materials functionalities and applications of additive manufacturing

MODERN PHARMACEUTICS DR. AVINASH JORIYA ,DR. NIDHI SOLANKI ,SIJO PATTAM ,SUJIT DESHMUKH , Advances in technology research and regulatory frameworks have significantly changed the area of pharmaceuticals in recent decades A rapidly developing field modern pharmaceuticals focusses on the creation formulation and optimisation of pharmaceutical products by fusing the concepts of biology chemistry and material science to produce potent medicinal remedies This area has become more complicated as it aims to meet the rising needs for targeted medicines personalised medicine and improved drug delivery methods The most recent developments in contemporary pharmaceuticals are thoroughly examined in this work including new dosage forms creative drug delivery methods and the use of nanotechnology to improve therapeutic effectiveness The study looks at the important ways that contemporary pharmaceuticals has improved patient care and advanced healthcare results especially when it comes to treating cancer chronic illnesses and age related ailments Modern pharmaceuticals significance is shown by its capacity to close the gap between research findings in the lab and real world medicinal applications In addition to providing effective therapy this discipline is essential in making sure that therapeutic items meet strict safety and regulatory requirements The purpose of this study is to shed light on the innovative approaches and technologies that are influencing pharmaceuticals future while emphasising the contribution of scientific innovation to the fulfilment of the world s healthcare demands In the area of pharmacy and pharmaceutical sciences I believe that my work will be a useful resource for researchers professionals and students helping to further the continuous development of safer more effective and more efficient pharmaceutical goods

Biopolymer-Based Nanomaterials in Drug Delivery and Biomedical Applications Hriday Bera, Chowdhury Mobaswar Hossain, Sudipta Saha, 2021-01-05 Over the past few decades there has been unprecedented progress in the design of versatile biopolymer based nanoplateforms for pharmaceutical and biomedical applications particularly due to their attractive traits including excellent biocompatibility outstanding biodegradability low immunogenicity and facile chemical modifiability Biopolymer Based Nanomaterials in Drug Delivery and Biomedical Applications serves as a clear and detailed body of information on the synthesis and characterization of biopolymer based materials in nanomedicine This book describes various nanomaterials consisting of biopolymers including polysaccharides i e derived from plants animals bacteria algae and fungi and polypeptides in terms of their structures synthetic protocols and characterization and uses as therapeutic drugs and gene delivery carriers and in other biomedical fields The chapters of this book which are contributed by internationally renowned scholars working in the arena of biopolymer based nanomaterials would offer a wide vision on the potential future applications of these nanomaterials in the delivery and targeting of bioactive molecules of pharmaceutical interests and in tissue engineering biosensing bioimaging and diagnostic purposes The state of the art information presented in the book

would also encourage young investigators and researchers to further bring cutting edge developments in the field of nanomedicine in the near future Provides a scholarly insight into the recent development of biopolymer based nanomaterials Focuses on the diverse cutting edge techniques for the fabrication of native and modified biopolymer based nanoplateforms and their applications in drug delivery and biomedical fields Assesses the opportunities and challenges of biopolymer based nanocarriers in pharmaceutical and biomedical research

Handbook of Polymers for Pharmaceutical Technologies, Biodegradable Polymers Vijay Kumar Thakur, Manju Kumari Thakur, 2015-09-23 Polymers are one of the most fascinating materials of the present era finding their applications in almost every aspects of life Polymers are either directly available in nature or are chemically synthesized and used depending upon the targeted applications Advances in polymer science and the introduction of new polymers have resulted in the significant development of polymers with unique properties Different kinds of polymers have been and will be one of the key in several applications in many of the advanced pharmaceutical research being carried out over the globe This 4 partset of books contains precisely referenced chapters emphasizing different kinds of polymers with basic fundamentals and practicality for application in diverse pharmaceutical technologies The volumes aim at explaining basics of polymers based materials from different resources and their chemistry along with practical applications which present a future direction in the pharmaceutical industry Each volume offer deep insight into the subject being treated Volume 1 Structure and Chemistry Volume 2 Processing and Applications Volume 3 Biodegradable Polymers Volume 4 Bioactive and Compatible Synthetic Hybrid Polymers

Advances in Pharmaceutical Product Development Keerti Jain, Awesh K. Yadav, 2025-03-18 This book discusses the stages involved in pharmaceutical product development including the importance requirement and effect of each stage and process It also covers prototype development for pharmaceutical formulations scale up studies optimization testing packaging and commercialization of different dosage forms for pharmaceutical products like tablets suspensions emulsions coating inhalational products sterile products and herbal formulations The book also presents advancements in tablet production and tablet coating including materials material handling granulation and granulation technologies process automation processing problems in tablet production and troubleshooting advances in equipment for coating and coating materials Further the chapter explores the advances in the formulation and development of aerosols nebulizers inhalers metered Dose Inhalers MDI and dry powder Inhalers DPIs Towards the end the book examines the challenges formulation development testing stability and regulatory guidelines in the development of herbal formulations This book provides a valuable source of information for the researcher scientists students and people working in the area mainly focused on the challenges in pharmaceutical product development

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