

Redefining Liquid Formulation Technology in Hard Capsules



Hard Capsules Development Technology

Mr. Navneet Pandey, Dr. Matsyagiri Lenkalapally, Dr. Kiran Kumar G B, Dr. Madhu B K, Dr. Paresh Kumar N. Patel

Hard Capsules Development Technology:

Modern Pharmaceutics Gilbert S. Banker, Juergen Siepmann, Christopher Rhodes, 2002-05-24 Completely revised and expanded throughout Presents a comprehensive integrated sequenced approach to drug dosage formulation design and evaluation Indentifies the pharmacodynamic and physicochemical factors influencing drug action through various routes of administration Hard Capsules K. Ridgway, 1987 This history documents the gelatin capsule from its inception in the early 19th century through to the 1990s It gives an account of all aspects of the manufacture and filling of hard capsules

Protein-Based Films and Coatings Aristippos Gennadios,2002-02-07 This volume presents the most up to date and detailed information available on protein based biopolymer films and coatings It provides a comprehensive overview of the design technology properties functionality and applications of biopolymer films and coatings edible and inedible from plant and animal proteins Both widely commercialized and **Pharmaceutical Capsules** Fridrun Podczeck,Brian E. Jones,2004 Updated and expanded second edition covers all aspects of capsule technology including history standards methods and equipment used in manufacture filling printing weighing cleaning and inspecting of both hard and soft capsules

Pharmaceutical Dosage Forms Larry L. Augsburger, Stephen W. Hoag, 2017-10-30 Pharmaceutical Dosage Forms Capsules covers the development composition and manufacture of capsules Despite the important role that capsules play in drug delivery and product development few comprehensive texts on the science and technology of capsules have been available for the research and academic environments This text addresses this gap discussing how capsules provide unique capabilities and options for dosage form design and formulation Aulton's Pharmaceutics Michael E. Aulton, Kevin Taylor, 2013 Pharmaceutics is the art of pharmaceutical preparations It encompasses design of drugs their manufacture and the elimination of micro organisms from the products This book encompasses all of these areas Provided by publisher

Pharmaceutical Preformulation and Formulation Mark Gibson, 2016-04-19 Pharmaceutical Preformulation and Formulation A Practical Guide from Candidate Drug Selection to Commercial Dosage Form reflects the mounting pressure on pharmaceutical companies to accelerate the new drug development and launch process as well as the shift from developing small molecules to the growth of biopharmaceuticals The book meets the ne The Textbook of Pharmaceutical Medicine
John P. Griffin, John O'Grady, 2008-04-15 New edition of succesful standard reference book for the pharmaceutical industry and pharmaceutical physicians The Textbook of Pharmaceutical Medicine is the coursebookfor the Diploma in Pharmaceutical Medicine and is used as astandard reference throughout the pharmaceutical industry The newedition includes greater coverage of good clinical practice acompletely revised statistics chapter and more on safety Coversthe course information for the Diploma in PharmaceuticalMedicine Fully updated with new authors Greater coverage of good clinical practice and safety New chapters on regulation of medical devices in Europe andregulation of therapeutic products in Australia

Handbook of Polymers for Pharmaceutical Technologies, Structure and Chemistry Vijay Kumar Thakur, Manju

Kumari Thakur, 2015-06-19 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 INDUSTRIAL PHARMACY Mr. Navneet Pandey, Dr. Matsyagiri Lenkalapally, Dr. Kiran Kumar G B, Dr. Madhu B K,Dr. Paresh Kumar N. Patel, A crucial course in the pharmaceutical sciences Industrial Pharmacy focuses on the concepts procedures and methods used in the creation production and quality assurance of pharmaceutical goods From medication formulation and dosage forms to the complexities of large scale manufacture in the pharmaceutical industry this book aims to provide students a thorough understanding of all the different facets of pharmaceutical production The availability of safe and efficient drugs for the treatment and prevention of illnesses is greatly influenced by the pharmaceutical sector As science and technology continue to progress the sector encounters new opportunities and difficulties that call for a thorough comprehension of both academic knowledge and practical abilities By providing an organized approach to the core ideas in industrial pharmacy this book seeks to close the knowledge gap between classroom instruction and actual pharmaceutical manufacture The fundamentals of pharmaceutical manufacture such as drug formulation excipient selection and dosage form design are covered in the first part of this book As they advance students will learn more about subjects like regulatory frameworks quality control and the production procedures of different dosage forms such as injectables pills and capsules Current Good Manufacturing Practices cGMP and the legal requirements that control the manufacturing of pharmaceuticals are emphasized Pharmacy students researchers and pharmaceutical industry professionals looking for a strong foundation in industrial pharmacy are the target audience for this book It seeks to equip the upcoming generation of pharmaceutical scientists to contribute to the constantly changing field of drug manufacture and to satisfy the rising need for high quality reasonably priced medications by offering a blend of theory real world applications and case studies We hope that this book will be a useful tool for your academic and professional endeavors giving you the information and abilities you need to succeed in the exciting and influential subject of industrial pharmacy Mr Navneet Pandey Dr Matsyagiri Lenkalapally Dr Kiran Kumar G B Dr Madhu B K Dr Paresh Kumar N Patel **Solid-State Materials**

and Technologies in Engineering Practice Anna Tampieri, Simone Sprio, Monica Sandri, Corrado Piconi, Norzahir Sapawe, Noor Faizah Che Harun, N. Jegadeeswaran, 2022-12-23 Special topic volume with invited peer reviewed papers only

Polymers for Oral Drug Delivery Technologies Anilkumar Parambath, 2024-10-07 Polymers for Oral Drug Delivery Technologies covers the fundamentals of oral drug delivery and various aspects of polymer technology in oral drug delivery from classification and synthesis to applications and regulatory factors It presents the oral delivery of therapeutics for treating a number of diseases along with the challenges of oral drug administration to assure a predictive and reproducible pharmacokinetic profile of active pharmaceutical ingredients API Polymers play an important role to achieve the targeted release profile consistently of an API in vivo by various functionalities like drug protection from gastric juice fast release and supersaturation or release within a targeted area of the GI tract Provides a comprehensive update on the state of polymer technology for oral drug delivery bringing the reader up to speed via a single reference Covers a range of polymer technology types including capsule forming polymers matrix formers functional polymer coatings and more Contains contributions from global experts spanning academia and industry offering an interdisciplinary and translational approach to Oral Lipid-Based Formulations David J. Hauss, 2007-06-08 Oral lipid based polymers for oral drug delivery formulations are attracting considerable attention due to their capacity to facilitate gastrointestinal absorption and reduce or eliminate the effect of food on the absorption of poorly water soluble lipophilic drugs Despite the obvious and demonstrated utility of these formulations for addressing a persistent and growing problem Modified-Release Drug Delivery Technology Michael J. Rathbone, Jonathan Hadgraft, Michael S. Roberts, 2002-11-07 Describing formulation challenges and their solutions in the design development and commercialization of modified release drugs delivery systems this book contains eighty papers that review recent developments in design and manufacturing techniques It includes detailed descriptions of extended release drug products for the oral nasal ophthalmic pulmonary vaginal dermal and transdermal pathways With the exception of the final section addressing regulatory issues each section covers a particular route for drug delivery and opens with an overview of the anatomical physiological and pharmaceutical basics of each route before moving on to cover specific technologies **Pharmaceutical Formulation** Geoffrey D Tovey, 2018-06-25 Formulation is a key step in the drug design process where the active drug is combined with other substances that maximise the therapeutic potential safety and stability of the final medicinal product Modern formulation science deals with biologics as well as small molecules Regulatory and quality demands in addition to advances in processing technologies result in growing challenges as well as possibilities for the field Pharmaceutical Formulation provides an up to date source of information for all who wish to understand the principles and practice of formulation in the drug industry The book provides an understanding of the links between formulation theory and the practicalities of processing in a commercial environment giving researchers the knowledge to produce effective pharmaceutical products that can be approved and manufactured The first chapters introduce readers to

different dosage forms including oral liquid products topical products and solid dosage forms such as tablets and capsules Subsequent chapters cover pharmaceutical coatings controlled release drug delivery and dosage forms designed specifically for paediatric and geriatric patients. The final chapter provides an introduction to the vital role intellectual property plays in drug development Covering modern processing methods and recent changes in the regulatory and quality demands of the industry Pharmaceutical Formulation is an essential up to date resource for students and researchers working in academia and in the pharmaceutical industry Green Chemical Engineering and Technology Norzahir Sapawe, Noor Faizah Che Harun, 2023-05-09 Selected peer reviewed extended articles based on abstracts presented at the 5th International Conference on Green Chemical Engineering and Technology 5thGCET2021 Aggregated Book Aulton's Pharmaceutics *E-Book* Kevin M.G. Taylor, Michael E. Aulton, 2021-04-23 The essential pharmaceutics textbook One of the world's best known texts on pharmaceutics Aulton's Pharmaceutics offers a complete course in one book for students in all years of undergraduate pharmacy and pharmaceutical sciences degrees Thoroughly revised updated and extended by experts in their fields and edited by Professors Kevin Taylor and Michael Aulton this new edition includes the science of formulation pharmaceutical manufacturing and drug delivery All aspects of pharmaceutics are covered in a clear and readily accessible way and extensively illustrated throughout providing an essential companion to the entire pharmaceutics curriculum from day one until the end of the course Fully updated throughout with the addition of new chapters to reflect advances in formulation and drug delivery science pharmaceutical manufacturing and medicines regulation Designed and written for newcomers to the design and manufacture of dosage forms Relevant pharmaceutical science covered throughout Includes the science of formulation and drug delivery Reflects current practices and future applications of formulation and drug delivery science to small drug molecules biotechnology products and nanomedicines Key points boxes throughout Over 400 online multiple choice questions Water-Insoluble Drug Formulation Ron Liu, 2018-03-12 Properties and Formulation From Theory to Real World Application Scientists have attributed more than 40 percent of the failures in new drug development to poor biopharmaceutical properties particularly water insolubility Issues surrounding water insolubility can postpone or completely derail important new drug development Even the much needed reformulation of currently marketed products can be significantly affected by these challenges More recently it was reported that the percentage increased to 90% for the candidates of new chemical entities in the discovery stage and 75% for compounds under development In the most comprehensive resource on the topic this third edition of Water Insoluble Drug Formulation brings together a distinguished team of experts to provide the scientific background and step by step guidance needed to deal with solubility issues in drug development Twenty three chapters systematically describe the detailed discussion on solubility theories solubility prediction models the aspects of preformulation biopharmaceutics pharmacokinetics regulatory and discovery support of water insoluble drugs to various techniques used in developing delivery systems for water insoluble drugs This

book includes more than 15 water insoluble drug delivery systems or technologies illustrated with case studies and featuring oral and parenteral applications Highlighting the most current information and data available this seminal volume reflects the significant progress that has been made in nearly all aspects of this field. The aim of this book is to provide a handy reference for pharmaceutical scientists in the handling of formulation issues related to water insoluble drugs In addition this book may be useful to pharmacy and chemistry undergraduate students and pharmaceutical and biopharmaceutical graduate students to enhance their knowledge in the techniques of drug solubilization and dissolution enhancement Federal 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 pharmaceutics pharmaceutical sciences biomedical engineering polymer and materials science and chemical and biochemical engineering

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