

DRUGS AND THE PHARMACEUTICAL SCIENCES

VOLUME 197

PHARMACEUTICAL POWDER COMPACTION TECHNOLOGY

SECOND EDITION



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Pharmaceutical Powder Compaction Technology

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Goran Alderborn, Christer Nystrom, 2019-08-30 This unique reference examines the modern pharmaceutical compacting techniques used to form tablets out of powders describing the physical structure of pharmaceutical compacts the bonding phenomena that occur during powder compaction and the compression mechanisms of pharmaceutical particles

Developing Solid Oral Dosage Forms Yihong 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 **Untersuchung des Tablettierverhaltens von Trockengranulaten verschiedener Hilfsstoffe**

Johanna Mosig, 2015-09-02 Im Rahmen dieser Arbeit wurde das Tablettierverhalten von Trockengranulaten aus Hilfsstoffen mit unterschiedlichen Kompressionsverhalten in Relation zur Direkttablettierung näher untersucht Dabei konnte ein maßgeblicher Einfluss des Schmiermittels auf die Ergebnisse der Tablettierung der Trockengranulate gezeigt werden Demzufolge darf die Schmierung bei der Interpretation von Tablettierungsergebnissen nicht vernachlässigt werden da sie zu falschen Schlussfolgerungen führen kann Die Partikelgrößenverteilung bei der Trockengranulierung besitzt so einen deutlich geringeren Stellenwert als Ursache für die reduzierte Kompaktibilität als in der Literatur bei interner Schmierung

beschrieben Das explizit für Trockengranulate entwickelte Unified Compaction Curve Modell ist bei vergleichbaren Schmierbedingungen zwischen Kompaktierung und Tablettierung nicht anwendbar und seine Theorie der kumulierten Festigkeit von Trockengranulierung und Tablettierung kann nicht bestätigt werden *Handbook of Pharmaceutical Granulation Technology* Dilip M. Parikh, 1997-06-17 Integrating the basic principles and industrial practices of pharmaceutical granulation production this book discusses technologies and demonstrates cost effective approaches to manufacturing solid dosage forms with content uniformity and consistent physical properties while complying with regulatory requirements Specialists from pharmaceutical companies academia and the U S Drug Regulatory Affairs agency address current and changing practices in industrial drug granulation production Text charts figures and photographs illustrate the pros and cons of diverse methods and technologies for accurately achieving strong bonding of particles in tablets and capsules Excipient Development for Pharmaceutical, Biotechnology, and Drug Delivery Systems Ashok Katdare, Mahesh Chaubal, 2006-07-28 To facilitate the development of novel drug delivery systems and biotechnology oriented drugs the need for new yet to be developed and approved excipients continues to increase Excipient Development for Pharmaceutical Biotechnology and Drug Delivery Systems serves as a comprehensive source to improve understanding of excipients and forge potential new avenues for regulatory approval This book presents detailed up to date information on various aspects of excipient development testing and technological considerations for their use It addresses specific details such as historical perspective preclinical testing safety and toxicology evaluation as well as regulatory quality and utility aspects The text also describes best practices for use of various functional excipients and extensive literature references for all topics **How to Design and Implement Powder-to-Tablet Continuous Manufacturing Systems** Fernando Muzzio, Sarang Oka, 2022-03-29 How to Design and Implement Powder to Tablet Continuous Manufacturing Systems provides a comprehensive overview on the considerations necessary for the design of continuous pharmaceutical manufacturing processes The book covers both the theory and design of continuous processing of associated unit operations along with their characterization and control In addition it discusses practical insights and strategies that the editor and chapter authors have learned Chapters cover Process Analytical Technology PAT tools and the application of PAT data to enable distributed process control With numerous case studies throughout this valuable guide is ideal for those engaged in or learning about continuous processing in pharmaceutical manufacturing Discusses the development of strategy blueprints in the design of continuous processes Shows how to create process flowsheet models from individual unit operation models Includes a chapter on characterization methods for materials the use of statistical methods to analyze material property data and the use of material databases Covers the evolving regulatory expectations for continuous manufacturing Provides readers with ways to more effectively navigate these expectations **Encyclopedia of Pharmaceutical Technology** James Swarbrick, 2013-07-01 Presenting authoritative and engaging articles on all aspects of drug development dosage

manufacturing and regulation this Third Edition enables the pharmaceutical specialist and novice alike to keep abreast of developments in this rapidly evolving and highly competitive field A dependable reference tool and constant companion for years to come

Pharmaceutical Gene Delivery Systems Alain Rolland, 2003-04-11 This volume examines the advantages and limitations of the major gene delivery systems and offers guidelines to select the most appropriate viral or synthetic delivery system for specific therapeutic applications It discusses advances in the design optimization and adaptation of gene delivery systems for the treatment of cancerous cardiovascular pulmonary genetic and infectious diseases

Pharmaceutical Inhalation Aerosol Technology, Third Edition Anthony J. Hickey, Sandro R. da Rocha, 2019-03-26 This fully revised and updated third edition of *Pharmaceutical Inhalation Aerosol Technology* encompasses the scientific and technical foundation for the rationale design componentry assembly and quality performance metrics of therapeutic inhalers in their delivery of pharmaceutical aerosols to treat symptoms or the underlying causes of disease It focuses on the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery The expanded scope considers previously unaddressed aspects of pharmaceutical inhalation aerosol technology and the patient interface by including aerosol delivery lung deposition and clearance that are used as measures of effective dose delivery Key Features Provides a thoroughly revised and expanded reference with authoritative discussions on the physiologic pharmacologic metabolic molecular cellular and physicochemical factors influencing the efficacy and utilization of pharmaceutical aerosols Emphasizes the importance of pharmaceutical engineering as a foundational element of all inhaler products and their application to pulmonary drug delivery Addresses the physics chemistry and engineering principles while establishing disease relevance Expands the technology focus of the original volumes to address the title more directly Offers an impressive breadth of coverage as well as an international flavour from outstanding editors and contributors

Transport Processes in Pharmaceutical Systems Gordon L. Amidon, Ping I. Lee, Elizabeth M. Topp, 1999-11-24 This cutting edge reference clearly explains pharmaceutical transport phenomena demonstrating applications ranging from drug or nutrient uptake into vesicle or cell suspensions drug dissolution and absorption across biological membranes whole body kinetics and drug release from polymer reservoirs and matrices to heat and mass transport in freeze drying and hygroscopicity Focuses on practical applications of drug delivery from a physical and mechanistic perspective highlighting biological systems Written by more than 30 international authorities in the field *Transport Processes in Pharmaceutical Systems* discusses the crucial relationship between the transport process and thermodynamic factors analyzes the dynamics of diffusion at liquid liquid liquid solid and liquid cultured cell interfaces covers prodrug design for improving membrane transport addresses the effects of external stimuli in altering some natural and synthetic polymer matrices examines properties of hydrogels including synthesis swelling degree swelling kinetics permeability biocompatibility and biodegradability presents mass transfer of drugs and pharmacokinetics based on mass balance descriptions and more

Containing over 1000 references and more than 1100 equations drawings photographs micrographs and tables Transport Processes in Pharmaceutical Systems is a must read resource for research pharmacists pharmaceutical scientists and chemists chemical engineers physical chemists and upper level undergraduate and graduate students in these disciplines

Drug Targeting Technology Hans Schreier,2001-08-09 Demonstrates how substitution of a variety of ligands can render albumin a versatile targeting tool for selective drug accumulation in various cell populations of the liver This book discusses physical chemical and biological approaches to drug targeting technology focusing on oral dispersed system topical dermal transdermal and inh

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

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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

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Martin, 2003-05-14 Pharmaceutical Extrusion Technology is the only resource to provide in depth descriptions and analyses of the key parameters of extruders and extrusion processes The book highlights the applicability of melt extrusion in pharmaceutical drug development and product manufacturing including controlled release dissolution rate and bioavailability enhancement and granulation technology It brings together the technical information necessary to develop and market pharmaceutical dosage forms that meet current quality and regulatory requirements and details extruder hardware and controls process definition and troubleshooting of single and twin screw extrusion processes and more **Nanoparticulate**

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arrangement and molecular geometry before going on to the lab assignment

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representation of the valence electrons of an atom that uses dots around the symbol of the element the number of dots equals the number of valence electrons in the atom

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web in 1916 american chemist gilbert n lewis introduced bond lines to electron dot structures these structures also known as lewis structures or electron dot structures are drawings that visually demonstrate how electrons are shared and arranged around atoms the electrons denoted as dots are called lone pairs and belong to an individual

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web lewis structures we also use lewis symbols to indicate the formation of covalent bonds which are shown in lewis structures drawings that describe the bonding in molecules and polyatomic ions for example when two chlorine atoms form a chlorine molecule they share one pair of electrons

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web jan 30 2023 a lewis structure is a very simplified representation of the valence shell electrons in a molecule it is used to show how the electrons are arranged around individual atoms in a molecule electrons are shown as dots or for bonding electrons as a line between the two atoms

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