

DRUGS AND THE PHARMACEUTICAL SCIENCES

**VOLUME 197**

# PHARMACEUTICAL POWDER COMPACTION TECHNOLOGY

**SECOND EDITION**



Metin Çelik

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# Pharmaceutical Powder Compaction Technology

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## **Pharmaceutical Powder Compaction Technology:**

**Pharmaceutical Powder Compaction Technology** Metin Çelik, 2016-04-19 Compaction of powder constituents both active ingredient and excipients is examined to ensure consistent and reproducible disintegration and dispersion profiles Revised to reflect modern pharmaceutical compacting techniques this second edition of Pharmaceutical Powder Compaction Technology guides pharmaceutical engineers formulation scientists *Pharmaceutical Powder Compaction Technology* 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 Tablettieverhaltens von Trockengranulaten verschiedener Hilfsstoffe* Johanna Mosig, 2015-09-02 Im Rahmen dieser Arbeit wurde das Tablettieverhalten 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 Partikelgrößenvergrößerung 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 Polymers for Pharmaceutical Technologies, Processing and Applications* Vijay Kumar Thakur, Manju Kumari Thakur, 2015-08-04 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 part set 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 **Pharmaceutical Capsules** Fridrun Podczek, 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 *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 **Einfluss der Partikelgröße auf die Walzenkompaktierung und Tablettierung** Michael Herting, 2007-07-05 [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 *Pharmaceutical Extrusion Technology* Isaac Ghebre-Sellassie, Charles E. Martin, Feng Zhang, James DiNunzio, 2018-03-05 The first edition of Pharmaceutical Extrusion Technology published in 2003 was deemed the seminal book on pharmaceutical extrusion Now it is expanded and improved just like the usage of extrusion

has expanded improved and evolved into an accepted manufacturing technology to continuously mix active pharmaceutical ingredients with excipients for a myriad of traditional and novel dosage forms Pharmaceutical Extrusion Technology Second Edition reflects how this has spawned numerous research activities in addition to hardware and process advancements It offers new authors expanded chapters and contains all the extrusion related technical information necessary for the development manufacturing and marketing of pharmaceutical dosage forms Key Features Reviews how extrusion has become an accepted technology to continuously mix active pharmaceutical ingredients with excipients Focuses on equipment and process technology Explains various extrusion system configurations as a manufacturing methodology for a variety of dosage forms Presents new opportunities available only via extrusion and future trends Includes contributions of experts from the process and equipment fields

**Chemical Engineering in the Pharmaceutical Industry** Mary T. am Ende, David J. am Ende, 2019-04-09 A guide to the important chemical engineering concepts for the development of new drugs revised second edition The revised and updated second edition of Chemical Engineering in the Pharmaceutical Industry offers a guide to the experimental and computational methods related to drug product design and development The second edition has been greatly expanded and covers a range of topics related to formulation design and process development of drug products The authors review basic analytics for quantitation of drug product quality attributes such as potency purity content uniformity and dissolution that are addressed with consideration of the applied statistics process analytical technology and process control The 2nd Edition is divided into two separate books 1 Active Pharmaceutical Ingredients API s and 2 Drug Product Design Development and Modeling The contributors explore technology transfer and scale up of batch processes that are exemplified experimentally and computationally Written for engineers working in the field the book examines in silico process modeling tools that streamline experimental screening approaches In addition the authors discuss the emerging field of continuous drug product manufacturing This revised second edition Contains 21 new or revised chapters including chapters on quality by design computational approaches for drug product modeling process design with PAT and process control engineering challenges and solutions Covers chemistry and engineering activities related to dosage form design and process development and scale up Offers analytical methods and applied statistics that highlight drug product quality attributes as design features Presents updated and new example calculations and associated solutions Includes contributions from leading experts in the field Written for pharmaceutical engineers chemical engineers undergraduate and graduation students and professionals in the field of pharmaceutical sciences and manufacturing Chemical Engineering in the Pharmaceutical Industry Second Edition contains information designed to be of use from the engineer s perspective and spans information from solid to semi solid to lyophilized drug products

[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

Particle Technology and Engineering Jonathan P.K. Seville, Chuan-Yu Wu, 2016-05-20 Particle Technology and Engineering presents the basic knowledge and fundamental concepts that are needed by engineers dealing with particles and powders The book provides a comprehensive reference and introduction to the topic ranging from single particle characterization to bulk powder properties from particle particle interaction to particle fluid interaction from fundamental mechanics to advanced computational mechanics for particle and powder systems The content focuses on fundamental concepts mechanistic analysis and computational approaches The first six chapters present basic information on properties of single particles and powder systems and their characterisation covering the fundamental characteristics of bulk solids powders and building an understanding of density surface area porosity and flow as well as particle fluid interactions gas solid and liquid solid systems with applications in fluidization and pneumatic conveying The last four chapters have an emphasis on the mechanics of particle and powder systems including the mechanical behaviour of powder systems during storage and flow contact mechanics of particles discrete element methods for modelling particle systems and finite element methods for analysing powder systems This thorough guide is beneficial to undergraduates in chemical and other types of engineering to chemical and process engineers in industry and early stage researchers It also provides a reference to experienced researchers on mathematical and mechanistic analysis of particulate systems and on advanced computational methods Provides a simple introduction to core topics in particle technology characterisation of particles and powders interaction between particles gases and liquids and some useful examples of gas solid and liquid solid systems Introduces the principles and applications of two useful computational approaches discrete element modelling and finite element modelling Enables engineers to build their knowledge and skills and to enhance their mechanistic understanding of particulate systems

*Aulton's Pharmaceuticals* Michael E. Aulton, Kevin Taylor, 2013 Pharmaceuticals 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 Photostability and Stabilization Technology Joseph

T. Piechocki, Karl Thoma, 2006-09-18 Based on a training course developed by Dr Joseph T Piechocki and other experts in this field whose contributions appear in this book for two International Meetings on the Photostability of Drugs and Drug Products this text clarifies the guidelines set by the International Conference on Harmonization ICH and provides a comprehensive background **Pharmaceutical Inhalation Aerosol Technology, Second Edition** Anthony J. Hickey, 2003-09-03

This thoroughly revised and expanded reference provides authoritative discussions on the physiologic pharmacologic metabolic molecular cellular and physicochemical factors influencing the efficacy and utilization of pharmaceutical aerosol It analyzes the latest science and developments in the generation administration and characterization of these compounds showcasing current clinical applications the efficiency and limitations of major aerosol products and emerging aerosol therapies impacting the field **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 **Adhäsionskräfte in interaktiven Mischungen für Pulverinhalatoren** Maike Lohrmann, 2005-12-22

Pulverinhalatoren gewinnen in der heutigen Arzneimitteltherapie immer mehr an Bedeutung Der mikronisierte Arzneistoff liegt meist als interaktive Mischung mit einem Träger vor Wissen einerseits über die Trägermaterialien und andererseits vor allem über die Wechselwirkungen zwischen dem Arzneistoff und dem Trägermaterial ist wichtig um eine effektive Entwicklung dieser interaktiven Mischungen durchzuführen In der vorliegenden Arbeit werden nach einer

Charakterisierung verschiedener Qualitäten des blichen Tr gers Laktose Laktose Monohydrat und des alternativen Tr gers Mannitol verschiedene Methoden zur Bestimmung interpartikul rer Wechselwirkungen getestet und bewertet Bei der Charakterisierung der Tr ger hinsichtlich der Faktoren die interpartikul re Wechselwirkungen beeinflussen werden sowohl Partikelgr e form und oberfl che betrachtet Untersuchungen zum Wasserdampfsorptionsverhalten ergeben f r beide Tr germaterialien eine sehr geringe Wasseraufnahme ber einen breiten Feuchtebereich Bei Laktose ist eine Ver nderung der Substanz in Abh ngigkeit von der Wasseraufnahme zu erkennen Es kommt w hrend der Sorption ab einer relativen Feuchte von ca 40 % zur Rekristallisation amorpher Anteile die beim Produktionsprozess durch unvollst ndige Kristallisation verbleiben oder bei Weiterverarbeitungsprozessen wie Sieben entstehen Durch den energiereichen Prozess der Luftstrahlmahlung werden diese Anteile stark erh ht Bei Mannitol ist dieses Ph nomen nicht zu beobachten

*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



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### **Pharmaceutical Powder Compaction Technology Introduction**

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