

DRUGS AND THE PHARMACEUTICAL SCIENCES

**VOLUME 197**

# PHARMACEUTICAL POWDER COMPACTION TECHNOLOGY

**SECOND EDITION**



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# Pharmaceutical Powder Compaction Technology

**Scott C. Dulebohn**



## **Pharmaceutical Powder Compaction Technology:**

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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

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**Process Modeling in Powder Metallurgy & Particulate Materials**, 2002 Pharmaceutical Statistics Practical And Clinical Applications, Third Edition Bolton Sanford, 1997-01-17 This edition offers new and expanded information on recent developments in stability data analysis concepts of statistical outliers bioequivalence studies problems in sampling and devising limits for product release covariance analysis and tolerance intervals multiple endpoints and clinical data analysis and more student price which is available upon request from Marcel Dekker Freeze-drying/lyophilization of Pharmaceutical and Biological Products Louis Rey, Joan Christine May, 1999 Highlights the application of freeze drying to pharmaceuticals illustrating practical industry tested methods of preserving reactivating delicate biologicals biochemicals Discusses the basic principles engineering aspects of lyophilization also the role of bulking agents additives cryoprotectants antioxidants free radicals other products that protect the biological integrity of active substances during freezing drying storage

**Agglomeration Processes** Wolfgang Pietsch, 2002 Agglomeration is integral to the processes of modification of powders production of composites and creation of new materials which are required in pharmaceuticals foods chemicals fertilizers and agrochemicals minerals ceramics metallurgy and all material producing industries The binding mechanisms and the particle behavior as well as the characteristics of the processes and the resulting agglomerates are the same whether they are occurring in the ultra clean pharmaceutical or food industries or in dirty minerals or waste processing plants The book introduces the interdisciplinary approach to the development of new concepts and the solution of problems It is a complete and up to date practical guide describing the various agglomeration phenomena and industrial techniques for size enlargement In addition to introducing the properties of agglomerates and the characteristics of the different methods descriptions of the machinery and discussions of specific equipment features are the main topics The detailed evaluation of the subject is based on the authors experience as student researcher teacher developer designer vendor and user as well as expert and consultant in the field of agglomeration its technologies and products and is complemented by the know how of colleagues who are active in specific areas and information from vendors It is intended for everybody working in industries that process and handle particulate solids as it aims to help understand and control unwanted agglomeration as well as use improve and develop methods for the beneficial size enlargement by agglomeration

**Good Manufacturing Practices for Pharmaceuticals** Sidney H. Willig, James R. Stoker, 1997 Revised to ensure GMP compliance this text examines US laws affecting domestic and multinational pharmaceutical manufacturing It recommends practical ways to interpret and comply with FDA CGMP regulations while meeting the goals of a comprehensive controls system to preserve product integrity

**Dose Optimization in Drug Development** Rajesh Krishna, 2006-05 This reference provides a concise overview of the key principles in dose selection and optimization and demonstrates applicability to recent successful new drug applications Compiling key issues and current research on safety efficacy and clinical pharmacology and PK PD this volume critically highlights the multidisciplinary nature of drug development and spans the fields of pharmacokinetics clinical pharmacology

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