

## Pharmaceutical Powder Compaction Technology

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Pharmaceutical Powder Compaction Technology
Compaction of Pharmaceutical Tablets It is a widely used technology in the pharmaceutical industry for the characteriza- Compaction Compaction of the powder mixture was performed using a custom designed compaction cell The cell, which was integrated with the diamond ATR Pharmaceutical Powder Compaction Technology Juhnke, M., Novartis Pharma AG

Pharmaceutical Powder Compaction Technology
Revised to reflect modern pharmaceutical compacting techniques, this second edition of Pharmaceutical Powder Compaction Technology guides pharmaceutical engineers, formulation scientists, and product development and quality assurance personnel through the compaction formulation process and application. This unique reference covers:

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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,

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Book Description: 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.

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Pharmaceutical powder compaction technology Nyström, Christer ; Alderborn, Göran 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

Pharmaceutical powder compaction technology by Nyström ...
Pharmaceutical Powder ComPattion Technology, Boca Raton: CRC Press, https://doi.org/10.1201/9780367803971. COPY. 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.

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Compaction as applicable to a pharmaceutical powder consists of the simultaneous processes of compression and consolidation of a two-phase (particulate solid-gas) system due to an applied force.In...

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Pharmaceutical Powder Compaction Technology (Drugs and the ...
60 Pharmaceutical Technology OCTOBER 2000 www.pharmaportal.com everal pharmaceutical processes, including blending, transfer, stor-age, feeding, compaction, and flu-idization, involve powder handling. (The term powder is used predominantly throughout this article, but these concepts also apply to other bulk solids — fine and

On Powder Flowability
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DUBLIN---- Research and Markets has announced the addition of the "Pharmaceutical Powder Compaction Technology" book to their offering.

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, and product development and quality assurance personnel through the compaction formulation process and application. This unique reference covers: The physical structure of pharmaceutical compacts Bonding phenomena that occur during powder compaction Compression mechanisms of pharmaceutical particles Theories and basic principles of powder compaction New topics include: Compaction data analysis techniques The migration of powder constituents into commercial manufacture Instrumentation for compaction Compaction functionality testing, which is likely to become a USP requirement Design space for compaction Metrics required for scalability in tablet compression Interactive compaction and preformulation database for commonly used excipients
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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's 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

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

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

Pharmaceutics is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceutics is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the patient. Now in its fourth edition, this best-selling textbook in pharmaceutics has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text and a clear reflection of the state of the art. Provides a logical, comprehensive account of drug design and manufacture includes the science of formulation and drug delivery designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmaceutics, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery, design and administration of medicines for the children and elderly; the latest in plant medicines, nanotechnology and nanomedicines, and the delivery of biopharmaceutics. Thoroughly revised and updated throughout.

This fully revised edition of Handbook of Pharmaceutical Granulation Technology covers the rapid advances in the science of agglomeration, process control, process modelling, scale-up, emerging particle engineering technologies, along with current regulatory changes presented by some of the prominent scientist and subject matter experts around the globe. Learn from more than 50 global subject matter experts who share their years of experience in areas ranging from drug delivery and pharmaceutical technology to advances in nanotechnology. Every pharmaceutical scientist should own a copy of this fourth edition resource. Key Features: Theoretical discussions covering granulation and engineering perspectives. Covers new advances in expert systems, process modelling and bioavailability Chapters on emerging technologies in particle engineering Updated Current research and developments in granulation technologies