

# Particle-particle Adhesion in Pharmaceutical Powder Handling



**Fridrun Podczeck**

Imperial College Press

# Particle Particle Adhesion In Pharmaceutical Powder Handling

**Fridrun Podczeck, Brian E. Jones**

## **Particle Particle Adhesion In Pharmaceutical Powder Handling:**

*Particle-particle Adhesion In Pharmaceutical Powder Handling* Fridrun Podczeck, 1998-07-31 This monograph describes the physical principles of adhesion between particles and surfaces. These principles are applied to pharmaceutical processes involved in the manufacture of solid dosage forms such as powders, granules, tablets and dry powder inhalations. To help in the understanding of these systems physical properties of solid surfaces and an introduction to the theory of friction is given. Techniques for measuring particle adhesion and fracture mechanical properties of powders are introduced as far as these are relevant to the processes discussed. The philosophy of the book deviates from that of standard pharmaceutical textbooks in that it focuses primarily on physical principles involved in the manufacture of dosage forms rather than describing these processes purely by observation.

**A Guide to Particulate Science in Pharmaceutical Product Development** Margaret D. Louey, Timothy M. Crowder, Anthony J. Hickey, 2025-08-04 The pharmaceutical applications of powder technology have long been recognized. Yet while many books focus on aspects of powder formation and behavior, there are few texts that explore the power of particulate science in the design, manufacture and control of quality medicines. This revision discusses key principles and practical applications. The authors cover particulate material, its form and production, sampling from bodies of powder, particle size descriptors and statistics, behavior of particles and powder, instrumental analysis, particle size measurement and synergy of adopted techniques, and in vitro and in vivo performance criteria. Case studies are included in this new edition. This fully revised edition provides an essential account of particulate science, including several new chapters on multicomponent particles, regulatory considerations and product development. Presents a variety of topics ranging from the quality of published data on particle size in pharmaceuticals to the future of crystal engineering. Reviews methods of particle measurement and their importance for specific applications. Discusses misconceptions and misunderstandings of particulate science together with lessons from other industries.

**Particulate Products** Henk G. Merkus, Gabriel M.H. Meesters, 2013-11-19 Particulate products make up around 80% of chemical products from all industry sectors. Examples given in this book include the construction materials, fine ceramics and concrete, the delicacies chocolate and ice cream, pharmaceutical powders, medical inhalers and sun screen, liquid and powder paints. Size distribution and the shape of the particles provide for different functionalities in these products. Some functions are general, others specific. General functions are powder flow and require at the typical particulate concentrations of these products that the particles cause adequate rheological behavior during processing and/or for product performance. Therefore this book addresses particle packing as well as its relation to powder flow and rheological behavior. Moreover, general relationships to particle size are discussed for e.g. color and sensorial aspects of particulate products. Product specific functionalities are often relevant for comparable product groups. Particle size distribution and shape provide for example the following functionalities: dense particle packing in relation to sufficient strength is required in concrete, construction, ceramic objects and pharmaceutical tablets; good

sensorial properties mouthfeel to chocolate and ice cream effective dissolution flow and compression properties for pharmaceutical powders adequate hiding power and effective coloring of paints for protection and the desired esthetical appeal of the objects adequate protection of our body against sun light by sunscreen effective particle transport and deposition to desired locations for medical inhalers and powder paints Adequate particle size distribution shape and porosity of particulate products have to be achieved in order to reach optimum product performance This requires adequate management of design and development as well as sufficient knowledge of the underlying principles of physics and chemistry Moreover flammability explosivity and other health hazards from powders during handling are taken into account This is necessary since great risks may be involved In all aspects the most relevant parameters of the size distribution and particle shape have to be selected In this book experts in the different product fields have contributed to the product chapters This provides optimum information on what particulate aspects are most relevant for behavior and performance within specified industrial products and how optimum results can be obtained It differs from other books in the way that the critical aspects of different products are reported so that similarities and differences can be identified We trust that this approach will lead to improved optimization in design development and quality of many particulate products

#### 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 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

#### **Dosage Form Design Parameters** ,2018-07-25 Dosage Form Design

Parameters Volume II examines the history and current state of the field within the pharmaceutical sciences presenting key developments Content includes drug development issues the scale up of formulations regulatory issues intellectual property solid state properties and polymorphism Written by experts in the field this volume in the Advances in Pharmaceutical Product Development and Research series deepens our understanding of dosage form design parameters Chapters delve into a particular aspect of this fundamental field covering principles methodologies and the technologies employed by pharmaceutical scientists In addition the book contains a comprehensive examination suitable for researchers and advanced students working in pharmaceuticals cosmetics biotechnology and related industries Examines the history and recent developments in drug dosage forms for pharmaceutical sciences Focuses on physicochemical aspects prefomulation solid state properties and polymorphism Contains extensive references for further discovery and learning that are appropriate for

advanced undergraduates graduate students and those interested in drug dosage design **Handbook of Lung Targeted Drug Delivery Systems** Yashwant Pathak,Nazrul Islam,2021-10-17 Handbook of Lung Targeted Drug Delivery Systems Recent Trends and Clinical Evidences covers every aspect of the drug delivery to lungs the physiology and pharmacology of the lung modelling for lung delivery drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications With the advent of nano sciences and significant development in the nano particulate drug delivery systems there has been a renewed interest in the lung as an absorption surface for various drugs The emergence of the COVID 19 virus has brought lung and lung delivery systems into focus this book covers new developments and research used to address the prevention and treatment of respiratory diseases Written by well known scientists with years of experience in the field this timely handbook is an excellent reference book for the scientists and industry professionals Key Features Focuses particularly on the chemistry clinical pharmacology and biological developments in this field of research Presents comprehensive information on emerging nanotechnology applications in diagnosing and treating pulmonary diseases Explores drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications Examines specific formulations targeted to pulmonary systems **Handbook of Adhesion** David Ernest Packham,1992 Part of the Polymer Science and Technology series this text covers such areas as theories of adhesion adhesive substrate interface surface characterization adhesives types testing pretreatment of surfaces primers environment and durability and engineering design *Current Awareness in Particle Technology* ,1996 **The 1997 Jubilee Research Event** ,1997

**Characterisation and Manipulation of Powders** Pharmaceutical Society of Great Britain. Department of Pharmaceutical Sciences,1967 **Bulk Solids Handling** Don McGlinchey,2008-04-28 Bulk Solids Handling Equipment Selection and Operation provides an overview of the major technologies involved in the storage and handling of particulate materials from large grains to fine cohesive materials Topics covered include characterisation of individual particles and bulk particulate materials silo design for strength and flow pneumatic conveying systems mechanical conveying and small scale operations Guidance is given on appropriate equipment choices depending on the type of material to be handled and applications and limitations of current bulk solids handling equipment are discussed Jacket **Annals** ,2002 **Chemical Abstracts** ,2002 **The British National Bibliography** Arthur James Wells,1999 **The Theory and Practice of Industrial Pharmacy** Leon Lachman,Herbert A. Lieberman,Joseph L. Kanig,1986 **Polymer Powder Technology** M. Narkis,1995-09-28 Low shear polymer powder processing provides unique solutions to many processing problems and offers a set of production techniques frequently un paralleled by other production methods In recent years there has been increased interest in this field but no comprehensive review of the subject has been available until now In this book a team of experts have taken the novel approach of treating several processing techniques such as compacted powder sintering rotational moulding powder coating ram extrusion and compression moulding as diverse implementations of a single

technology The first chapters deal with the scientific and engineering fundamentals shared by various polymer powder processing techniques and are followed by a detailed examination of each technique and some special effects Polymer Powder Technology will prove invaluable to technologists plastics and materials engineers researchers and students working with various aspects of particulate polymer processing     **Kona** ,2008     Australian Journal of Pharmaceutical Sciences  
,1980     **Journal of Pharmacy and Pharmacology** ,1996-07

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