Particle-particle Adhesion in Pharmaceutical Pourder Handling



Importal Gelliege Physi-

<u>Particle Powder</u> <u>Handling</u>

Mary T. am Ende, David J. am Ende

Particleparticle 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 Particle Adhesion and Removal K. L. Mittal, Ravi Jaiswal, 2015-01-06 The book provides a comprehensive and easily accessible reference source covering all important aspects of particle adhesion and removal The core objective is to cover both fundamental and applied aspects of particle adhesion and removal with emphasis on recent developments Among the topics to be covered include 1 Fundamentals of surface forces in particle adhesion and removal 2 Mechanisms of particle adhesion and removal 3 Experimental methods e q AFM SFA SFM IFM etc to understand particle particle and particle substrate interactions 4 Mechanics of adhesion of micro and nanoscale particles 5 Various factors affecting particle adhesion to a variety of substrates 6 Surface modification techniques to modulate particle adhesion 7 Various cleaning methods both wet dry for particle removal 8 Relevance of particle adhesion in a host of technologies Pharmaceutical Dosage Forms - Tablets Larry L. Augsburger, Stephen W. ranging from simple to ultra sophisticated Hoag, 2016-04-19 The ultimate goal of drug product development is to design a system that maximizes the therapeutic potential of the drug substance and facilitates its access to patients Pharmaceutical Dosage Forms Tablets Third Edition is a comprehensive resource of the design formulation manufacture and evaluation of the tablet dosage form an Chemical Engineering in the Pharmaceutical Industry Mary T. am Ende, David J. am Ende, 2019-04-08 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 Nanotechnology in Australia Deborah M. Kane, Adam Micolich, James Rabeau, 2011-07-11 This book reports current nanotechnology research from Australia in addition to being the first trial of a new workshop program for the professional development of early career researchers ECRs including research students It showcases the professional talents and high quality writing of ECRs and also describes the workshop program organized under the auspices of the Australian Research Council Nanotechnology Network designed to facilitate this The nanotechnology research topics include plasmonics the building blocks of plasmonic circuits the use of metal nanoparticles to improve infrared light trapping in solar cell applications methods for the bulk synthesis of graphene synthesis of nanorods of vanadium compounds for energy storage nanodiamonds superparamagnetic nanoparticles and synthesis of hollow nanostructured silica along with a discussion of their applications molecular dynamics modelling of self cleaning coatings metal nanostructure enhanced fluorescence and its biological applications luminescent nano bioprobes for bioassays and bioimaging biomimicry leading to olfactory nano biosensors and superparamagnetic nanoparticles as MRI contrast agents 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 Particles on Surfaces: Detection, Adhesion and Removal, Volume 7 Kash L. Mittal, 2023-01-06 This volume documents the proceedings of the 7th International Symposium on Particles on Surfaces Detection Adhesion and Removal held in Newark NJ June 19 21 2000 The study of particles on surfaces is extremely important in a host of diverse technological areas ranging from microelectronics to optics to biomedical This volume contains a total of 28 papers which were all properly peer reviewed revised and edited before inclusion Therefore this book is not merely a collection of unreviewed manuscripts but rather represents information which has passed peer scrutiny Furthermore the authors were asked to update their manuscripts so the information contained in this book should be current and fresh This volume is divided into two parts 1 Particle Analysis and General Cleaning Related Topics and 2 Particle Adhesion and Removal The topics covered include surface analysis techniques for particle identification cleaning rinsing and drying issues in post CMP cleaning fundamental forces involved in particle adhesion factors affecting adhesion of small nanosize particles factors important in particle detachment particle adhesion measurement by AFM various wet and dry techniques for particle removal e g laser ultrasonic megasonic use of surfactants toner particles and pharmaceutical particles. This volume offers a wealth of information on the tremendously technologically important field of particles on surfaces and should provide a consolidated source of current R D activity in this arena Therefore it will be of value and use to anyone interested in the topic Pharmaceutical Inhalation Aerosol Technology, Second Edition Anthony J. Hickey, 2003-09-03 of particles on surfaces 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 Predictive Modeling of Pharmaceutical Unit Operations Preetanshu Pandey, Rahul therapies impacting the field Bharadwaj, 2016-09-26 The use of modeling and simulation tools is rapidly gaining prominence in the pharmaceutical industry covering a wide range of applications This book focuses on modeling and simulation tools as they pertain to drug product manufacturing processes although similar principles and tools may apply to many other areas Modeling tools can improve fundamental process understanding and provide valuable insights into the manufacturing processes which can result in significant process improvements and cost savings With FDA mandating the use of Quality by Design QbD principles during manufacturing reliable modeling techniques can help to alleviate the costs associated with such efforts and be used to create in silico formulation and process design space This book is geared toward detailing modeling techniques that are utilized for the various unit operations during drug product manufacturing By way of examples that include case studies various modeling principles are explained for the nonexpert end users A discussion on the role of modeling in quality risk

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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 partset 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 Blending and Mixing P. J. Cullen,Rodolfo J. Romañach,Nicolas Abatzoglou,Chris D. Rielly,2015-05-11 Written in four parts this book provides a dedicated and in depth reference for blending within the pharmaceutical manufacturing industry It links the science of blending with regulatory requirements associated with pharmaceutical manufacture The contributors are a combination of leading academic and industrial experts who provide an informed and industrially relevant perspective of the topic This is an essential book for the pharmaceutical manufacturing industry and related academic researchers in pharmaceutical science and chemical and mechanical engineering

Simulations in Bulk Solids Handling Don McGlinchey, 2023-01-30 Simulations in Bulk Solids Handling Valuable resource for engineers and professionals dealing with bulk granular or powdered materials across industries using Discrete Element Methods DEM In many traditional university engineering programmes no matter whether undergraduate or postgraduate the behavior of granular materials is not covered in depth or at all This omission leaves recent engineering graduates with little formal education in the major industrial area of bulk solids handling This book teaches young professionals and engineers to find appropriate solutions for handling granular and powdered materials It also provides valuable information for experienced engineers to gain an understanding and appreciation of the most significant simulation methods DEM chief amongst them For any student or professional involved with bulk solids handling this book is a key resource to understand the most efficient and effective stimulation methods that are available today Its comprehensive overview of the topic allows for upcoming professionals to ensure they have adequate knowledge in the field and for experienced professionals to improve their skills and processes Particulate Interactions in Dry Powder Formulation for Inhalation Xian Ming Zeng, Gary Peter Martin, Christopher Marriott, 2000-10-26 Interactions between drug particulates are crucial in determining drug dispersion and deaggregation and ultimately delivery efficiency This book combines principles established in surface and colloidal chemistry with pharmaceutical powder technology It discusses some of the factors affecting particulate interactions and particle fluid interaction in the respiratory tract It review some of the studies carried out in dry powder formulation

development and proposes possible strategies in improving DPI efficiency. The majority of these principles are applicable to other pharmaceutical solid dosage forms e g tablets and capsules Modern Pharmaceutics Gilbert S. Banker, Juergen Siepmann, Christopher Rhodes, 2002-05-24 Completely revised and expanded throughout Presents a comprehensive integrated sequenced approach to drug dosage formulation design and evaluation Indentifies the pharmacodynamic and physicochemical factors influencing drug action through various routes of administration **Encyclopedia of Surface and** Colloid Science, 2004 Update Supplement P. Somasundaran, 2014-05-08 Appending the Encyclopedia of Surface and Colloid Science by 42 entries as well as 3800 new citations 1012 equations and 485 illustrations and chemical structures this important supplement summarizes a constellation of new theoretical and experimental findings related to chemical characterization mechanisms interfacial behavior methods and mo Inhalation Drug Delivery Paolo Colombo, Daniela Traini, Francesca Buttini, 2013-02-11 There has been a rapid evolution in the field of inhalation drug therapy including new drugs increased regulation and quality control and strong pressure from generics Inhalation Drug Therapy brings together the most current inhalation drug research as well as practical developments and processes into one essential guide Focusing on inhalation products and specific equipment and techniques used in manufacturing and quality control the book balances research with the industrial aspects of creating the drugs and features a highly regarded author team with both academic and industry experience 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

Development of Predictive Tools for the Characterisation of Milling

Behaviour of Pharmaceutical Powders / Entwicklung Von Methoden Zur Vorhersage Der

Zerkleinerungseigenschaften Pharmazeutischer Pulver Matthias Meier,2010 This work examines the main influence factors on the breakage behaviour of pharmaceutical substances and other organic crystals Particle surface characterisation is done via Atomic Force Microscopy thus examining the transport properties of the powders The breakage behaviour is characterised by single particle impact experiments Mechanical properties are determined by indentation The results show a clear correlation between the breakage behaviour expressed by the breakage probability and the breakage function and the hardness and fracture toughness of the material This allows an estimate about the breakage behaviour of a substance from indentation experiments with far less material consumption than in conventional milling experiments

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