

Butterworths Monographs in
Chemical Engineering

Enlargement and Compaction of Particulate Solids

Edited by

Nayland G Stanley-Wood

Butterworths

Enlargement And Compaction Of Particulate Solids

Don McGlinchey



Enlargement And Compaction Of Particulate Solids:

Enlargement and Compaction of Particulate Solids Nayland G. Stanley-Wood, 2013-10-22 Enlargement and Compaction of Particulate Solids describes the methodology used in the compaction and size enlargement of particulate solids. The discussions are organized into the following topics: characterization of powders and granules before and after compaction; mixing; shear testing; fluidized bed granulation mechanisms of size enlargement and compaction; and instrumentation of industrial presses and processes. This text is comprised of 12 chapters, the first of which deals with the measurement of size and shape of individual particles or collections of individual particles, both spherical and non-spherical. Attention then turns to particle characterization by size, shape, and surface for contacted particles. The application of nitrogen isotherms, Types II and IV, and mercury intrusion to compacted solids is highlighted. The chapters that follow focus on powder mixing, flow, and handling of solids and pharmaceutical granulation and compaction. The basic mechanisms of size enlargement are reviewed in relation to three common methods of granulation: pan granulation, fluidized bed granulation, and spray drying or prilling. The remaining chapters describe the mechanisms of compaction, compact characterization, instrumentation of tablet machines, compaction of ceramics, and isostatic pressing and compacting techniques. This book is intended primarily for students and chemical engineers, as well as physicists, powder and pharmaceutical technologists, ceramists, and metallurgists.

Guidelines for Safe Handling of Powders and Bulk Solids CCPS (Center for Chemical Process Safety), 2010-08-13 Powders and bulk solids handled widely in the chemical, pharmaceutical, agriculture, smelting, and other industries present unique fire, explosion, and toxicity hazards. Indeed, substances which are practically inert in consolidated form may become quite hazardous when converted to powders and granules. The U.S. Chemical Safety and Hazard Investigation Board is currently investigating dust explosions that occurred in 2003 at WestPharma CTA Acoustics and Hayes Lemmerz and is likely to recommend that companies that handle powders or whose operations produce dust pay more attention to understanding the hazards that may exist at their facility. This new CCPS guidelines book will discuss the types of hazards that can occur in a wide range of process equipment and with a wide range of substances and will present measures to address these hazards.

Unit Operations of Particulate Solids Enrique Ortega-Rivas, 2016-04-19 Suitable for practicing engineers and engineers in training, this book covers the most important operations involving particulate solids. Through clear explanations of theoretical principles and practical laboratory exercises, the text provides an understanding of the behavior of powders and pulverized systems. It also helps readers develop skills for operating, optimizing, and innovating particle processing technologies and machinery in order to carry out industrial operations. The author explores common bulk solids processing operations, including milling, agglomeration, fluidization, mixing, and solid fluid separation.

Handbook of Pharmaceutical Granulation Technology Dilip M. Parikh, 2021-05-11 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 **Pharmaceutical Dosage Forms - Tablets** Larry L. Augsburger, Stephen W.

Hoag, 2008-06-03 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 treatment of the design formulation manufacture and evaluation of the tablet dosage form With over 700 i

Mechanical Conveyors Thomas Skocir, 2018-04-27 This book is a comprehensive practical guide and reference to today's mechanical conveyor systems It covers all types of mechanical conveyors providing in depth information on their design function and applications More than 180 photographs and schematics illustrate details of design and system layout An introductory chapter provides an understanding of the characteristics of various types of bulk solids including their conveyability and the types of conveying systems most effective for each Following chapters examine each of five major categories of conveying systems with practical details on their design operation and applications The final chapter presents basic information on motors and drives for conveying systems as well as related equipment such as speed reduction systems and conveyor brakes The emphasis throughout the text is on practical engineering and operating information with a minimum of theory The presentation is systematic and organized for easy reference A very detailed index enables the quick location of needed information This guide and reference will be useful to all engineers and other personnel involved in the continuous movement of bulk solids It serves as both a basic introduction and a desk top reference The Authors Dr Fayed is a Professor and Director of the Powder Science Technology Group at Ryerson Polytechnic University in Toronto He is also a licensed Consulting Engineer a Fellow of the American Institute of Chemical Engineers and the Canadian Society of Chemical Engineering Previously he held positions in process design and development with ICI Davy McKee M W Kellogg and Peabody He has lectured at numerous seminars and workshops at meetings of the American Institute of Chemical Engineers and other organizations He has published many papers on particulate technology and is the co editor of Powder Science Technology Handbook Thomas Skocir is an engineer presently with ECO TEC **Chemical Process Equipment - Selection and Design (Revised 2nd Edition)** James R. Couper, W Roy Penney, James R. Fair PhD, 2009-08-11 A facility is only as efficient and profitable as the equipment that is in it this highly influential book is a powerful resource for chemical process or plant engineers who need to select design or configure plant successfully and profitably It includes updated information on design

methods for all standard equipment with an emphasis on real world process design and performance The comprehensive and influential guide to the selection and design of a wide range of chemical process equipment used by engineers globally Copious examples of successful applications with supporting schematics and data to illustrate the functioning and performance of equipment Revised edition new material includes updated equipment cost data liquid solid and solid systems and the latest information on membrane separation technology Provides equipment rating forms and manufacturers data worked examples valuable shortcut methods rules of thumb and equipment rating forms to demonstrate and support the design process Heavily illustrated with many line drawings and schematics to aid understanding graphs and tables to illustrate performance data *Particle Size Analysis* N G Stanley-Wood,R W Lines,2007-10-31 The Special Publications Series is a collection of books produced from the proceedings of international symposia Editors bring together contributions from authorities in the field and the books provide snapshots of the latest developments of that field Characterisation of Bulk Solids Don McGlinchey,2009-02-12 Handling of powders and bulk solids is a critical industrial technology across a broad spectrum of industries from minerals processing to bulk and fine chemicals and the food and pharmaceutical industries yet is rarely found in the curricula of engineering or chemistry departments With contributions from leading authors in their respective fields Characterisation of Bulk Solids provides the reader with a sound understanding of the techniques importance and application of particulate materials characterisation It covers the fundamental characteristics of individual particles and bulk particulate materials and includes discussion of a wide range of measurement techniques and the use of material characteristics in design and industrial practice The reader will then be in a better position to diagnose solids handling and processing problems in industry and to deal with experts and equipment suppliers from an informed standpoint Written for post graduate engineers chemical scientists and technologists at all stages of their industrial career the book will also serve as an ideal primer in any of the specialist areas to inform further study *Chemical Process Equipment* James R. Couper,W Roy Penney,James R. Fair PhD,2012-12-06 Chemical Process Equipment is a results oriented reference for engineers who specify design maintain or run chemical and process plants This book delivers information on the selection sizing and operation of process equipment in a format that enables quick and accurate decision making on standard process and equipment choices saving time improving productivity and building understanding Coverage emphasizes common real world equipment design rather than experimental or esoteric and focuses on maximizing performance Legacy reference for chemical and related engineers who work with vendors to design specify and make final equipment selection decisions Copious examples of successful applications with supporting schematics and data to illustrate the functioning and performance of equipment Provides equipment rating forms and manufacturers data worked examples valuable shortcut methods and rules of thumb to demonstrate and support the design process Heavily illustrated with line drawings and schematics to aid understanding as well as graphs and tables to illustrate performance data Advances in Food and

Nutrition Research Steve Taylor, 2005-05-04 Advances in Food and Nutrition Research is an eclectic serial established in 1948 The serial recognizes the integral relationship between the food and nutritional sciences and brings together outstanding and comprehensive reviews that highlight this relationship Contributions detail the scientific developments in the broad areas encompassed by the fields of food science and nutrition and are intended to ensure that food scientists in academia and industry as well as professional nutritionists and dieticians are kept informed concerning emerging research and developments in these important disciplines Series established since 1948 Advisory Board consists of 8 respected scientists Unique series as it combines food science and nutrition research

Martin's Physical Pharmacy and Pharmaceutical Sciences Patrick J. Sinko, 2023-03-01 Consistently revised and updated for more than 60 years to reflect the most current research and practice Martin's Physical Pharmacy and Pharmaceutical Sciences 8th Edition is the original and most comprehensive text available on the physical chemical and biological principles that underlie pharmacology and the pharmaceutical sciences An ideal resource for PharmD and pharmacy students worldwide teachers researchers or industrial pharmaceutical scientists this 8th Edition has been thoroughly revised enhanced and reorganized to provide readers with a clear consistent learning experience that puts essential principles and concepts in a practical approachable context Updated content reflects the latest developments and perspectives across the full spectrum of physical pharmacy and a new full color design makes it easier than ever to discover distinguish and understand information providing users the most robust support available for applying the elements of biology physics and chemistry in work or study

Fundamentals of Fluidized-Bed Chemical Processes J G Yates, 2013-10-22 Fundamentals of Fluidized bed Chemical Processes presents a survey of the design operation and chemical processes of fluidized bed reactors The book is composed of five chapters The first chapter examines the basic physics of gas solid fluidization The second chapter shows how the physics of gas solid fluidization may be combined with chemical kinetics to generate models of fluidized bed reactors Chapters 3 and 4 deal with two major applications of gas solid fluidization the Fluidized Catalytic Cracking process and the combustion and gasification of coal The final chapter analyzes other processes used in the production of chemicals such as phthalic anhydride acrylonitrile and compounds of uranium Undergraduate and postgraduate students of chemical engineering engineers chemists and scientists will find this text useful

Industrial Aspects of Pharmaceuticals SANDELL, 1992-06-01 **Encyclopedia of Chemical Processing and Design** John J. McKetta Jr, 1994-11-21 Written by engineers for engineers with over 150 International Editorial Advisory Board members this highly lauded resource provides up to the minute information on the chemical processes methods practices products and standards in the chemical and related industries

Chemistry of Powder Production Yasuo Arai, 2012-12-06 Chemistry of Powder Production focuses on the solid state chemistry of powder materials and relates this to the structure properties and preparation and characterization techniques for these important industrial products Additionally the properties of the particles are discussed in relation to their surface structure and characteristics

This book describes the fundamentals of statistical methods for measuring the characteristics of particles New advanced materials being developed in powder technology manufacturing techniques are also emphasised including powdered materials for advanced ceramics as well as magnetic and pigment materials **Role of Surface Roughness in Tribology**

Chunyan Yang,2008 **Perry's Chemical Engineers' Handbook, 9th Edition** Don W. Green,Marylee Z.

Southard,2018-07-13 Up to Date Coverage of All Chemical Engineering Topics from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition this industry standard resource has equipped generations of engineers and chemists with vital information data and insights Thoroughly revised to reflect the latest technological advances and processes Perry s Chemical Engineers Handbook Ninth Edition provides unsurpassed coverage of every aspect of chemical engineering You will get comprehensive details on chemical processes reactor modeling biological processes biochemical and membrane separation process and chemical plant safety and much more This fully updated edition covers Unit Conversion Factors and Symbols Physical and Chemical Data including Prediction and Correlation of Physical Properties Mathematics including Differential and Integral Calculus Statistics Optimization Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control and Instrumentation Process Economics Transport and Storage of Fluids Heat Transfer Operations and Equipment Psychrometry Evaporative Cooling and Solids Drying Distillation Gas Absorption and Gas Liquid System Design Liquid Liquid Extraction Operations and Equipment Adsorption and Ion Exchange Gas Solid Operations and Equipment Liquid Solid Operations and Equipment Solid Solid Operations and Equipment Chemical Reactors Bio based Reactions and Processing Waste Management including Air Wastewater and Solid Waste Management Process Safety including Inherently Safer Design Energy Resources Conversion and Utilization Materials of Construction **Molecular**

Thermodynamics of Nonideal Fluids Lloyd L. Lee,2016-02-06 Molecular Thermodynamics of Nonideal Fluids serves as an introductory presentation for engineers to the concepts and principles behind and the advances in molecular thermodynamics of nonideal fluids The book covers related topics such as the laws of thermodynamics entropy its ensembles the different properties of the ideal gas and the structure of liquids Also covered in the book are topics such as integral equation theories theories for polar fluids solution thermodynamics and molecular dynamics The text is recommended for engineers who would like to be familiarized with the concepts of molecular thermodynamics in their field as well as physicists who would like to teach engineers the importance of molecular thermodynamics in the field of engineering **Fundamental**

Process Control David M. Prett,Carlos E. García,2013-10-22 Fundamental Process Control focuses on the fundamental nature of process control which includes an extensive discussion on control methodologies The first seven chapters are devoted to the development of a complete control problem formulation that contains all the elements of practical importance Due to the novelty of these ideas no rigorous mathematical proofs yet exist for the assertions made although they have been verified through simulation and experience in practice The concepts discussed in Chapters 8 and 9 contain ideas for future

developments in process control that will trigger the imagination of researchers in the fields covered This book requires a thorough grounding in both classical and modern control theory in order to grasp the material presented This book is therefore not for casual readers but rather is directed at those who are currently or those who desire to develop into control design experts Within the academic community this book is ideal for the graduate level and for those academics pursuing fundamental research topics in process control

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Table of Contents Enlargement And Compaction Of Particulate Solids

1. Understanding the eBook Enlargement And Compaction Of Particulate Solids
 - The Rise of Digital Reading Enlargement And Compaction Of Particulate Solids
 - Advantages of eBooks Over Traditional Books
2. Identifying Enlargement And Compaction Of Particulate Solids
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Enlargement And Compaction Of Particulate Solids
 - User-Friendly Interface
4. Exploring eBook Recommendations from Enlargement And Compaction Of Particulate Solids
 - Personalized Recommendations
 - Enlargement And Compaction Of Particulate Solids User Reviews and Ratings

- Enlargement And Compaction Of Particulate Solids and Bestseller Lists
- 5. Accessing Enlargement And Compaction Of Particulate Solids Free and Paid eBooks
 - Enlargement And Compaction Of Particulate Solids Public Domain eBooks
 - Enlargement And Compaction Of Particulate Solids eBook Subscription Services
 - Enlargement And Compaction Of Particulate Solids Budget-Friendly Options
- 6. Navigating Enlargement And Compaction Of Particulate Solids eBook Formats
 - ePub, PDF, MOBI, and More
 - Enlargement And Compaction Of Particulate Solids Compatibility with Devices
 - Enlargement And Compaction Of Particulate Solids Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Enlargement And Compaction Of Particulate Solids
 - Highlighting and Note-Taking Enlargement And Compaction Of Particulate Solids
 - Interactive Elements Enlargement And Compaction Of Particulate Solids
- 8. Staying Engaged with Enlargement And Compaction Of Particulate Solids
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Enlargement And Compaction Of Particulate Solids
- 9. Balancing eBooks and Physical Books Enlargement And Compaction Of Particulate Solids
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Enlargement And Compaction Of Particulate Solids
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Enlargement And Compaction Of Particulate Solids
 - Setting Reading Goals Enlargement And Compaction Of Particulate Solids
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Enlargement And Compaction Of Particulate Solids
 - Fact-Checking eBook Content of Enlargement And Compaction Of Particulate Solids
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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