**Second Edition** 

# Introduction to Particle Technology

Edited by Martin Rhodes



# **Particulate Technology**

**Frank Hartmann** 

#### **Particulate Technology:**

Introduction to Particle Technology Martin J. Rhodes, 2013-03-25 Particle technology is a term used to refer to the science and technology related to the handling and processing of particles and powders The production of particulate materials with controlled properties tailored to subsequent processing and applications is of major interest to a wide range of industries including chemical and process food pharmaceuticals minerals and metals companies and the handling of particles in gas and liquid solutions is a key technological step in chemical engineering This textbook provides an excellent introduction to particle technology with worked examples and exercises Based on feedback from students and practitioners worldwide it has been newly edited and contains new chapters on slurry transport colloids and fine particles size enlargement and the health effects of fine powders Topics covered include Characterization Size Analysis Processing Granulation Fluidization Particle Formation Granulation Size Reduction Storage and Transport Hopper Design Pneumatic Conveying Standpipes Slurry Flow Separation Filtration Settling Cyclones Safety Fire and Explosion Hazards Health Hazards Engineering the Properties of Particulate Systems Colloids Respirable Drugs Slurry Rheology This book is essential reading for undergraduate students of chemical engineering on particle technology courses It is also valuable supplementary reading for students in other branches of engineering applied chemistry physics pharmaceutics mineral processing and metallurgy Practitioners in industries in which powders are handled and processed may find it a useful starting point for gaining an understanding of the behavior of particles and powders Review of the First Edition taken from High Temperatures High pressures 1999 31 243 251 This is a modern textbook that presents clear cut knowledge It can be successfully used both for teaching particle technology at universities and for individual study of engineering problems in powder processing

**Particle Technology and Engineering** Jonathan P.K. Seville, Chuan-Yu Wu, 2016-05-20 Particle Technology and Engineering presents the basic knowledge and fundamental concepts that are needed by engineers dealing with particles and powders The book provides a comprehensive reference and introduction to the topic ranging from single particle characterization to bulk powder properties from particle particle interaction to particle fluid interaction from fundamental mechanics to advanced computational mechanics for particle and powder systems The content focuses on fundamental concepts mechanistic analysis and computational approaches The first six chapters present basic information on properties of single particles and powder systems and their characterisation covering the fundamental characteristics of bulk solids powders and building an understanding of density surface area porosity and flow as well as particle fluid interactions gas solid and liquid solid systems with applications in fluidization and pneumatic conveying The last four chapters have an emphasis on the mechanics of particles discrete element methods for modelling particle systems and finite element methods for analysing powder systems This thorough guide is beneficial to undergraduates in chemical and other types of

engineering to chemical and process engineers in industry and early stage researchers It also provides a reference to experienced researchers on mathematical and mechanistic analysis of particulate systems and on advanced computational methods Provides a simple introduction to core topics in particle technology characterisation of particles and powders interaction between particles gases and liquids and some useful examples of gas solid and liquid solid systems Introduces the principles and applications of two useful computational approaches discrete element modelling and finite element modelling Enables engineers to build their knowledge and skills and to enhance their mechanistic understanding of particulate systems

Introduction to Particle Technology Martin J. Rhodes, 2008-06-09 Particle technology is a term used to refer to the science and technology related to the handling and processing of particles and powders The production of particulate materials with controlled properties tailored to subsequent processing and applications is of major interest to a wide range of industries including chemical and process food pharmaceuticals minerals and metals companies and the handling of particles in gas and liquid solutions is a key technological step in chemical engineering This textbook provides an excellent introduction to particle technology with worked examples and exercises Based on feedback from students and practitioners worldwide it has been newly edited and contains new chapters on slurry transport colloids and fine particles size enlargement and the health effects of fine powders Topics covered include Characterization Size Analysis Processing Granulation Fluidization Particle Formation Granulation Size Reduction Storage and Transport Hopper Design Pneumatic Conveying Standpipes Slurry Flow Separation Filtration Settling Cyclones Safety Fire and Explosion Hazards Health Hazards Engineering the Properties of Particulate Systems Colloids Respirable Drugs Slurry Rheology This book is essential reading for undergraduate students of chemical engineering on particle technology courses It is also valuable supplementary reading for students in other branches of engineering applied chemistry physics pharmaceutics mineral processing and metallurgy Practitioners in industries in which powders are handled and processed may find it a useful starting point for gaining an understanding of the behavior of particles and powders Review of the First Edition taken from High Temperatures High pressures 1999 31 243 251 This is a modern textbook that presents clear cut knowledge It can be successfully used both for teaching particle technology at universities and for individual study of engineering problems in powder processing

**Processing of Particulate Solids** J.P. Seville, Ugammaur Tüzün, R. Clift, 2012-12-06 Over half of the products of the chemical and process industries are sold in a particulate form The range of such products is vast from agrochemicals to pigments from detergents to foods from plastics to pharmaceuticals However surveys of the performance of processes designed to produce particulate products have consistently shown inadequate design and poor reliability Particle technology is a new subject facing new challenges Chemical and process engineering is becoming less concerned with the design of plants to produce generic simple chemicals which are often single phase fluids and is now more concerned with speciality effect chemicals which may often be in particulate form Chemical and process engineers are also being recruited in

increasing numbers into areas outside their tranditional fields such as the food industry pharmaceuticals and the manufacture of a wide variety of consumer products This book has been written to meet their needs It provides comprehensive coverage of the technology of particulate solids in a form which is both accessible and concise enough to be useful to engineering and science students in the final year of an undergraduate degree and at Master's level Although it was written with students of chemical engineering in mind it will also be of use and interest to students of other disciplines It comprises an account of the fundamentals of teh subject illustrated by worked examples and followed by a wide range of selected applications Fundamentals of Particle Technology Richard Holdich, 2020-12-01 Fundamentals of Particle Technology is designed to assist the understanding of how particulate materials behave during processing and is written with engineers and scientists who are new to the subject in mind It is accessible in both cost and style and is illustrated with numerous line diagrams Most of the 16 chapters end with questions in multiple choice format This helps problem decomposition and the reader can see each step required to arrive at an overall process solution If the reader makes a mistake with any of the steps he or she usually does not see their answer and will immediately know where they have gone wrong The aspects of Particle Technology covered include particle characterisation solid liquid and solid gas separations fluidisation flow of and in dispersions powder mixing storage hazards crushing and colloidal interaction Extensive Internet support and referencing is provided The teaching style adopted is the result of experience gained from presenting the subject for over 30 years at both undergraduate and postgraduate level 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 **Particulate Technology for Delivery of Therapeutics** Sougata Jana, Subrata Jana, 2017-10-09 The book focuses on novel particulate technologies for the purpose of drug delivery to humans Nowadays macro and nano scale particles are being investigated for targeted delivery of small and large biological macromolecules The targeting of drugs can minimize the dosage regimen and reduces dose related potential toxicity of drug molecules which in turn lead to increased potential compliance Various types of organic inorganic and polymer particles are currently being investigated These are attracting the attention of the research workers in the field of drug delivery science and technology This book covers polymersomes inorganic organic composites gold nanoparticles biopolymer and synthetic polymer particles etc All aspects of drug delivery in relation to each technology have been described including these advances Easy to read and understand the content of each chapter Rich in up to date information regarding their application Diesel Particulate Filter Technology Timothy V Johnson, 2007-03-28 Until recently the complexity of the Diesel Particulate Filter DPF system has hindered its commercial success Stringent regulations of diesel emissions has lead to advancements in this technology therefore mainstreaming the use of DPFs in light and heavy duty diesel filtration applications This book covers the latest and most important research in DPF systems focusing mainly on the advancements of the years 2002 2006 Editor Timothy V Johnson selected the top 29 SAE papers covering the most significant research in this technology 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 Second Symposium on the Transfer and Utilization of Particulate Control Technology F. P. Venditti, J. A. Armstrong, Michael Durham, 1980

Diesel Particulate Filter Technology Timothy V Johnson, 2007-03-28 Until recently the complexity of the Diesel

Particulate Filter DPF system has hindered its commercial success Stringent regulations of diesel emissions has lead to advancements in this technology therefore mainstreaming the use of DPFs in light and heavy duty diesel filtration applications This book covers the latest and most important research in DPF systems focusing mainly on the advancements of the years 2002 2006 Editor Timothy V Johnson selected the top 29 SAE papers covering the most significant research in this Particle Technology and Applications Sunggyu Lee, Kimberly H. Henthorn, 2016-04-19 Particle Technology technology and Applications presents the theoretical and technological background of particle science and explores up to date applications of particle technologies in the chemical petrochemical energy mechanical and materials industries It looks at the importance of particle science and technology in the development of efficient chemi **Particle Characterization in Technology** J.K. Beddow, 2018-01-18 The first section of volume II deals with both theory and methods of morphological analysis it then discusses data analysis and finally the applications Particle Characterization in Technology Beddow, 2018-01-18 Volume I present an important exposition of some of the most significant areas where particle characterization is applied The technological fields include pharmaceutical materials bulk solids and explosions Particle Characterization: Light Scattering Methods Renliang Xu, 2001-11-30 Particle characterization is an important component in product research and development manufacture and guality control of particulate materials and an important tool in the frontier of sciences such as in biotechnology and nanotechnology This book systematically describes one major branch of modern particle characterization technology the light scattering methods This is the first monograph in particle science and technology covering the principles instrumentation data interpretation applications and latest experimental development in laser diffraction optical particle counting photon correlation spectroscopy and electrophoretic light scattering In addition a summary of all major particle sizing and other characterization methods basic statistics and sample preparation techniques used in particle characterization as well as almost 500 latest references are provided The book is a must for industrial users of light scattering techniques characterizing a variety of particulate systems and for undergraduate or graduate students who want to learn how to use light scattering to study particular materials in chemical engineering material sciences physical Powder Technology Hiroaki Masuda, Ko Higashitani, Hideto Yoshida, 2006-11-29 chemistry and other related fields Drawing from the third edition of the bestselling Powder Technology Handbook this book is focused solely on analyzing the fundamental properties and behavior of particles and particle beds Powder Technology Fundamentals of Particles Powder Beds and Particle Generation concentrates on the most useful analytical methods of o Particulate Technology Clyde Orr,1966 Condensation Particle Counting Technology and Its Applications Longfei Chen, Xiaoyan Ma, Guangze Li, Liuyong Chang, 2024-09-20 Condensation Particle Counting Technology and Its Applications introduces the principles key components calibration methods and applications of condensation particle counting systems This book delves into the adverse effects of fine particles on human health along with the existing detection technologies for these particles.

discusses the theories and methods of optical measurement for fine particles and elaborates on the applicable conditions for each light scattering theory providing a theoretical foundation for detecting particle scattered light This book concludes with an overview of the challenges posed by ongoing climate change and future research prospects in condensation particle counting CPC This book is intended for industry professionals and environmental researchers specializing in particle and aerosol measurement detection methods and technology **Evolution of Silicon Sensor Technology in Particle Physics** Frank Hartmann, 2008-12-01 In the post era of the Z and W discovery after the observation of Jets at UA1 and UA2 at CERN John Ellis visioned at a HEP conference at Lake Tahoe California in 1983 To proceed with high energy particle physics one has to tag the avour of the guarks This statement re ects the need for a highly precise tracking device being able to resolve secondary and tertiary vertices within high particle densities Since the d tance between the primary interaction point and the secondary vertex is proportional tothelifetimeoftheparticipatingparticle itisanexcellentquantitytoidentifypar cle avour in a very fast and precise way In colliding beam experiments this method was applied especially to tag the presence of b quarks within particle jets It was rst introduced in the DELPHI experiment at LEP but soon followed by all collider periments to date The long expected t guark discovery was possible mainly with the help of the CDF silicon vertex tracker providing the b quark information In the beginning of the 21st century the new LHC experiments are beginning to take 2 shape CMS with its 206m of silicon area is perfectly suited to cope with the high luminosity environment Even larger detectors are envisioned for the far future like the SiLC project for the International Linear Collider Silicon sensors matured from small 1in single sided devices to large 6in double sided double metal detectors and to 6in single sided radiation hard sensors **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

# Unveiling the Magic of Words: A Review of "Particulate Technology"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Particulate Technology**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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