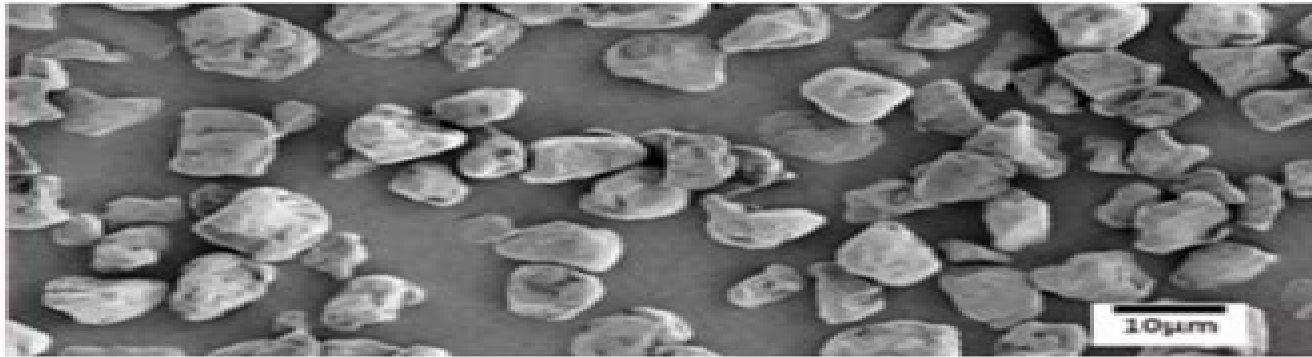


# PARTICULATE TECHNOLOGY

- ❖ **Particle technology** is the science and technology related to the handling and processing of particles and powders.



- ❖ This applies to the production, handling, modification and use of wide variety of particulate materials both wet and dry, in sizes, ranging from nanometers to centimeters.

# Particulate Technology

**Sougata Jana, Subrata Jana**



## **Particulate Technology:**

**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, pharmaceuticals, 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.

**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 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

**Second Symposium on the Transfer and Utilization of Particulate Control Technology** F. P. Venditti, J. A. Armstrong, Michael Durham, 1980

Particle Technology and Applications Sunggyu Lee, Kimberly H. Henthorn, 2012-03-26 Particle 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 chemical processes and novel functional materials With peer reviewed chapters written by a select group of academic and industry experts the book provides examples of particle technology and its advanced industrial applications It includes the necessary scientific background of particle technology as well as relevant technological details of the application areas This helps readers grasp specific details of the applied technology since the advanced particle technology can directly or synergistically have an impact on outcomes such as the development of a targeted functional material enhancement of existing processing techniques and modification of the properties of existing materials Presenting a consistent scientific treatment of all topics this comprehensive yet accessible book covers a variety of practical applications and relevant theoretical foundation of particle science and technology It will help readers tackle new challenges in process and product development and create new methodologies in the clean technology sector

**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 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 particle and powder systems including the mechanical behaviour of powder systems during storage and flow contact 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, 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 pharmaceuticals 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

**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 It 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 Powder Technology Hiroaki Masuda,Ko Higashitani,Hideto Yoshida,2006-11-29

Drawing from the third edition of the bestselling Powder Technology Handbook this book concentrates on handling methods and unit operations for powder and particle processing techniques It examines the purpose and factors involved in each process including planning equipment measurements and other necessary considerations This book c 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 **World Congress on Particle Technology 3** ,1998 A world conference held in this area every four years with 1998 being the third IChemE publishes the proceedings and this time they are presented in CD ROM format Amongst the plenary contributors is Sir Harold Kroto on Buckminsterfullerenes

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 traditional 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 the subject illustrated by worked examples and followed by a wide range of selected applications      **Introduction to Particle Technology** Martin J. Rhodes, Jonathan Seville, 2024-05-16

**INTRODUCTION TO PARTICLE TECHNOLOGY** A new edition of the indispensable guide to particulates and powders Particle technology concerns the formation processing and properties of the particles and powders which make up many of the products that surround us Such products range from the cement and aggregate in the built environment to pharmaceuticals and processed foods Most of the process industries involve particles either as essential components such as catalysts or as intermediate or final products and minerals such as the rare earths that are generally mined and processed in particulate form Particles can have many beneficial uses but they can also cause harm in the environment and through inhalation to the individual In all cases the powder properties particularly particle size are crucially important This well known textbook now in its 3rd edition provides an easily understood introduction to the underlying scientific principles of particle technology together with examples of how these principles can be used in practical design and operation of industrial processes Each chapter contains both worked examples and exercises for the student Based on feedback from students and users of the earlier editions this revised and expanded text includes introductory chapters on particles as products and on computational methods The topics have been selected to give coverage of the broad areas of particle technology and include Characterization size analysis surface area Processing granulation fluidization Particle formation granulation crystallisation tableting size reduction Storage and transport hopper design pneumatic conveying standpipes Separation filtration settling cyclones Safety fire and explosion hazards health hazards Engineering the properties of particulate systems to achieve desired product performance Discrete element modelling of particulate systems Introduction to Particle Technology 3rd Edition is essential reading for students of chemical engineering The text is also recommended reading for students of mechanical engineering applied chemistry pharmaceuticals physics mineral processing and metallurgy and is an excellent source for practising engineers and scientists looking to establish a working knowledge of the subject      *Handbook of Hydraulic Fluid Technology* George E. Totten, 1999-10-15 This text aims to facilitate a broader understanding of the total hydraulic system including hardware fluid properties and testing and hydraulic lubricants It provides a comprehensive and rigorous overview of hydraulic fluid technology and evaluates the ecological benefits of water as an important alternative technology Equations tables and illustrations are used to clarify and reinforce essential concepts      **Control of Particulate Emissions in the Primary Nonferrous Metals Industries** Southern Research Institute (Birmingham, Ala.), 1979

**Modern Drying Technology, Volume 2** Evangelos Tsotsas, Arun S. Mujumdar, 2011-02-10 This five volume handbook provides a comprehensive overview of all important aspects of modern drying technology including only cutting edge results Volume 2 comprises experimental methods used in various industries and in research in order to design and control drying processes measure moisture and moisture distributions characterize particulate material and the internal micro structure of

dried products and investigate the behavior of particle systems in drying equipment Key topics include acoustic levitation near infrared spectral imaging magnetic resonance imaging X ray tomography and positron emission tracking *Handbook of Industrial Polyethylene and Technology* Mark A. Spalding, Ananda Chatterjee, 2017-10-12 This handbook provides an exhaustive description of polyethylene The 50 chapters are written by some of the most experienced and prominent authors in the field providing a truly unique view of polyethylene The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene high density polyethylene copolymers and polyethylene produced from metallocene catalysts With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing fillers processing aids anti fogging agents pigments and flame retardants Common processing methods including extrusion blown film cast film injection molding and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding fiber processing pipe extrusion reactive extrusion wire and cable and foaming processes The business of polyethylene including markets world capacity and future prospects are detailed This handbook provides the most current and complete technology assessments and business practices for polyethylene resins

**Advanced Power Plant Materials, Design and Technology** Dermot Roddy, 2010-05-24 Fossil fuel power plants account for the majority of worldwide power generation Increasing global energy demands coupled with issues of ageing and inefficient power plants have led to new power plant construction programmes As cheaper fossil fuel resources are exhausted and emissions criteria are tightened utilities are turning to power plants designed with performance in mind to satisfy requirements for improved capacity efficiency and environmental characteristics Advanced power plant materials design and technology provides a comprehensive reference on the state of the art of gas fired and coal fired power plants their major components and performance improvement options Part one critically reviews advanced power plant designs which target both higher efficiency and flexible operation including reviews of combined cycle technology and materials performance issues Part two reviews major plant components for improved operation including advanced membrane technology for both hydrogen H<sub>2</sub> and carbon dioxide CO<sub>2</sub> separation as well as flue gas handling technologies for improved emissions control of sulphur oxides SO<sub>x</sub> nitrogen oxides NO<sub>x</sub> mercury ash and particulates The section concludes with coverage of high temperature sensors and monitoring and control technology that are essential to power plant operation and performance optimisation Part three begins with coverage of low rank coal upgrading and biomass resource utilisation for improved power plant fuel flexibility Routes to improve the environmental impact are also reviewed with chapters detailing the integration of underground coal gasification and the application of carbon dioxide CO<sub>2</sub> capture and storage Finally improved generation performance is



reviewed with coverage of syngas and hydrogen H<sub>2</sub> production from fossil fuel feedstocks With its distinguished international team of contributors Advanced power plant materials design and technology is a standard reference for all power plant engineers and operators as well as to academics and researchers in this field Provides a comprehensive reference on the state of the art gas fired and coal fired power plants their major components and performance improvement options Examines major plant components for improved operation as well as flue gas handling technologies for improved emissions control Routes to improve environmental impact are discussed with chapters detailing the integration of underground coal gasification

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In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Particulate Technology**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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