

# SMALL PARTICLES TECHNOLOGY



Jan-Erik Otterstedt  
and  
Dale A. Brandreth

# Small Particles Technology

**Jet Propulsion Laboratory (U.S.)**



## **Small Particles Technology:**

*Small Particles Technology* Jan-Erik Otterstedt, Dale A. Brandreth, 2013-03-09 It is difficult to imagine modern technology without small particles 1 1000 nm in size because virtually every industry depends in some way on the use of such materials Catalysts printing inks paper dyes and pigments many medicinal products adsorbents thickening agents some adhesives clays and hundreds of other diverse products are based on or involve small particles in a very fundamental way In some cases finely divided materials occur naturally or are merely a convenient form for using a material In most cases small particles play a special role in technology because in effect they constitute a different state of matter because of the basic fact that the surface of a material is different from the interior by virtue of the unsaturated bonding interactions of the outermost layers of atoms at the surface of a solid Whereas in a macroscale particle these differences are often insignificant as the surface area per unit mass becomes larger by a factor of as much as 10 physical and chemical effects such as adsorption become so pronounced as to make the finely divided form of the bulk material into essentially a different material usually one that has no macroscale counterpart

**Particle Characterization in Technology** John Keith Beddow, 2018-01-18 Volume I presents 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

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

**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

Functional Gradient Materials and Surface Layers Prepared by Fine Particles Technology Marie-Isabelle Baraton, Irina V. Uvarova, 2012-12-06 The NATO Advanced Study Institute on Functional Gradient Materials and Surface Layers Prepared by Fine Particles Technology was held in Kiev Ukraine on June 18 28 2000 where more than 90 participants ranging from Ph D students to experienced senior scientists met and exchanged ideas This meeting was aimed at stimulating the research work across traditional disciplinary lines by bringing together scientists from diverse research areas related to functional gradient materials and surface layers It also intended to give opportunities for initiating collaborative works between scientists from NATO and Partner countries and to trigger fruitful and exciting discussions between experienced and young researchers In this respect this NATO ASI has been quite successful The term of functional gradient materials which originates from Japan in the 1980 s describes a class of engineering materials with spatially inhomogeneous microstructures and properties MRS Bulletin 1995 20 N1 These materials can be successfully utilized in various applications like electronic devices optical films anti wear and anti corrosion coatings thermal barrier coatings biomaterials to name only a few Although these functional gradient materials are not fundamentally new the use of nanoparticles in their fabrication and in surface layers as well has greatly improved their performances to meet challenging requirements for industrial applications

**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

**Powtech '83 Particle Technology** Sam Stuart,2013-10-22 Powtech 83 Particle Technology focuses on the techniques and processes involved in the handling and processing of powders and other related products The book presents studies that show the composition characteristics value and strength of materials when subjected to different conditions in different environments Divided into five parts with 32 chapters the book features the work of contributors who have conducted research on the composition and chemical processes involved in particle technology The pieces that are presented feature experiments and tests conducted on different materials such as coal and liquids These experiments are supported by lengthy discussions coupled with numerical representation to validate the claims of authors in their respective concerns Although the authors have their own topics to cover they will manage to capture the interest of physicists chemists and mechanical and civil engineers who are interested in particle technology Taking into consideration the value of information presented in the book these professionals will find the book a reliable source of data in their profession and in their studies

*Handbook of Oil Spill Science and Technology* Merv Fingas,2015-02-02 Provides a scientific basis for the cleanup and for the assessment of oil spills Enables Non scientific officers to understand the science they use on a daily basis Multi disciplinary approach covering fields as diverse as biology microbiology chemistry physics oceanography and toxicology Covers the science of oil spills from risk analysis to cleanup and through the effects on the environment Includes case studies examining and analyzing spills such as Tasman Spirit oil spill on the Karachi Coast and provides lessons to prevent these in the future

**Superfine Particle Technology** Noboru Ichinose,Yoshiharu Ozaki,Seiichiro Kashu,2012-12-06 If a substance is repeatedly subdivided the result is what are known as microscopic

particles These particles are distinguished from the solid mass which they originally formed by the size of the surface area per unit weight This simple difference holds true down to a certain lower size limit and when this limit is exceeded a new state of matter is reached in which the behavior of the particles is quite different to that of the original solid Particles in this state are termed superfine particles and are distinct from ordinary particles The size of the superfine particles that is to say the size limit below which particle behavior is completely different from the behavior of the original solid varies a good deal depending on the physical properties of the substance in question Properties such as magnetism and electrical resistance are closely related to the internal structural properties of the particles themselves such as the magnetization processes of their respective magnetic domains and the mean free path of charged bodies This internal structure therefore limits the size of the superfine particles In ceramic processing on the other hand the surface area of the particles themselves becomes an even more important factor than their internal structure In this case the size of the superfine particles is determined by the interaction between water and solvents on the surface of the particles

*Proceedings of the ... International Symposium on Technology and the Mine Problem*, 1998 Particle Technology and Textiles Jean Cornier, Franz Pursche, 2023-05-22

Functionalization of material systems is one of the key developments nowadays in the textile industry where particles are frequently used to enhance the properties of fibers and to add new functionalities This book focuses on innovative textile materials and is a perfect guide for professionals in the textile industry and scientists alike An overview of particle technology is provided before addressing all topics relevant to particle enhanced textiles i e the properties and application of micro nanoparticles in textiles production techniques safety as well as regulatory and intellectual property aspects The book covers the composition and applications of various types of textile fillers finishings and microfibers gives an outlook on future trends and challenges in the research development and production of nano and micro enabled textiles The authors of the book who are leading experts in their fields address many aspects relevant to the use of particle enhanced textiles in industrial applications as well as in our daily life A particular emphasis is put on practical examples of applications and products safety and sustainability issues and the potential for further innovation This book should bring inspiration for textile scientists in using particles for improving textiles and further expanding their possibilities of use

Nanoparticle Technology Handbook Makio Naito, Toyokazu Yokoyama, Kouhei Hosokawa, Kiyoshi Nogi, 2018-03-06 Nanoparticle Technology Handbook Third Edition is an updated and expanded authoritative reference providing both the theory behind nanoparticles and the practical applications of nanotechnology This third edition features twenty new chapters providing a reference much broader in scope than the previous edition Over 140 experts in nanotechnology and or particle technology contributed to this new edition The book not only includes the theory behind nanoparticles but also the practical applications of nanotechnology It examines future possibilities and new innovations and contains important knowledge on nanoparticle characterization and the effect of nanoparticles on the environment and humans Nanoparticle technology is a new and revolutionary technology

which is increasingly used in electronic devices and nanomaterials. It handles the preparation, processing, application and characterization of nanoparticles and has become the core of nanotechnology as an extension of conventional fine particle powder technology. Nanoparticle technology plays an important role in the implementation of nanotechnology in many engineering and industrial fields including electronic devices, advanced ceramics, new batteries, engineered catalysts, functional paint and ink, drug delivery system, biotechnology etc. making use of the unique properties of nanoparticles which are completely different from those of bulk materials. Introduces all aspects of nanoparticle technology from the fundamentals to applications. Cover basic information on preparation through to the characterization of nanoparticles in a systematic way. Features information on nanostructures which play an important role in practical applications. Includes the effects of nanoparticles on human health and the environment. Includes applications of nanoparticles in diverse fields including applications in new areas such as electronics, cosmetics etc. Offers up to date information given by specialists in each field.

**Small Particles Technology** Jan-Erik Otterstedt, Dale A. Brandreth, 2013-02-14 It is difficult to imagine modern technology without small particles 1 1000 nm in size because virtually every industry depends in some way on the use of such materials. Catalysts, printing inks, paper dyes and pigments, many medicinal products, adsorbents, thickening agents, some adhesives, clays and hundreds of other diverse products are based on or involve small particles in a very fundamental way. In some cases finely divided materials occur naturally or are merely a convenient form for using a material. In most cases small particles play a special role in technology because in effect they constitute a different state of matter because of the basic fact that the surface of a material is different from the interior by virtue of the unsaturated bonding interactions of the outermost layers of atoms at the surface of a solid. Whereas in a macroscale particle these differences are often insignificant as the surface area per unit mass becomes larger by a factor of as much as 10, physical and chemical effects such as adsorption become so pronounced as to make the finely divided form of the bulk material into essentially a different material, usually one that has no macroscale counterpart.

**Sintering Technology** Randall M. German, Gary L. Messing, Robert G. Cornwall, 2020-09-29 Based on the sintering conference held at the Pennsylvania State University USA, this text presents advances in the application of sintering to the most important industrial materials. It offers results on both solid state and microphase sintering as well as microstructure evolution and introduces new applications, processes, materials and solutions to technical problems.

**Aerosol Technology** William C. Hinds, Yifang Zhu, 2022-04-20 AEROSOL TECHNOLOGY: An in depth and accessible treatment of aerosol theory and its applications. The Third Edition of Aerosol Technology: Properties, Behavior and Measurement of Airborne Particles delivers a thorough and authoritative exploration of modern aerosol theory and its applications. The book offers readers a working knowledge of the topic that reflects the numerous advances that have been made across a broad spectrum of aerosol related application areas. New updates to the popular text include treatments of nanoparticles, the health effects of atmospheric aerosols, remote sensing, bioaerosols and low cost sensors. Additionally,

readers will benefit from insightful new discussions of modern instruments The authors maintain a strong focus on the fundamentals of the discipline while providing a robust overview of real world applications of aerosol theory New exercise problems and examples populate the book which also includes Thorough introductions to aerosol technology key definitions particle size shape density and concentration as well as the properties of gases Comprehensive explorations of uniform particle motion particle size statistics and straight line acceleration and curvilinear particle motion Practical discussions of particle adhesion Brownian motion and diffusion thermal and radiometric forces and filtration In depth examinations of sampling and measurement of concentration respiratory deposition coagulation condensation evaporation and atmospheric aerosols Perfect for senior undergraduate and junior graduate students of science and technology Aerosol Technology Properties Behavior and Measurement of Airborne Particles will also earn a place in the libraries of professionals working in industrial hygiene air pollution control climate science radiation protection and environmental science Particle Technology and Applications Sunggyu Lee, Kimberly H. Henthorn, 2016-04-19 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 chemi **TRANSBALTICA XV: Transportation Science and Technology** Olegas Prentkovskis, Irina Yatskiv (Jackiva), Paulius Skačkauskas, Mykola Karpenko, Michał Stosiak, 2025-03-25 This book reports on innovative research and developments in the broad field of transportation It covers innovative solutions relating to intelligent vehicles and infrastructure energy and combustion management vehicle dynamics and engineering It also reports on advances in railway transport air transportation as well as transportation safety and logistics Chapters are based on peer reviewed papers presented at the 15th international scientific conference Transbaltica Transportation Science and Technology held on September 19 20 2024 in person at Vilnius Gediminas Technical University in Vilnius Lithuania and also online All in all this book offers extensive and timely information to both researchers and practitioners in the field of transportation logistics and related interdisciplinary areas *Encyclopedia of Emulsion Technology* Daniel Schuster, 2024-11-01 This volume extends the discussions of basic theory and applications featured in volumes 1 3 of this series It includes details on emulsion stability and emulsification an examination on the effect of added polymers on emulsion rheology findings on the role of repulsive forces in aqueous solubility micelle stability micro emulsion formation and phase separation and a model for microemulsions **Technical Report - Jet Propulsion Laboratory, California Institute of Technology** Jet Propulsion Laboratory (U.S.), 1962 **Adsorption: Science and Technology** A.E. Rodrigues, M. Douglas LeVan, Daniel Tondeur, 2012-12-06 Proceedings of the NATO Advanced Study Institute Vimeiro Portugal July 17 29 1988



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