

Principles Of Powder Technology

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Powder technology is extremely important to a wide range of disciplines and industries including food, pharmaceutical manufacturing, minerals and metals processing, among others. Modeled after a short course designed specifically for graduate engineers working in industry, it presents the fundamental engineering properties of materials--essential knowledge for the design and operation of ...

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Principles Of Powder Technology

Principle of Powder Metallurgy. Powder technology is the science for the manufacture of parts from metal powders by compaction and heating that creates a homogeneous mass. Heating is executed in a furnace and is called sintering.

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Powder Technology is an International Journal on the Science and Technology of Wet and Dry Particulate Systems. Powder Technology publishes papers on all aspects of the formation of particles and their characterisation and on the study of systems containing particulate solids. No limitation is imposed on the size of the particles, which may range from nanometre scale, as in pigments or aerosols, to that of mined or quarried materials.

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Modification of surface properties of powders that are used as solid process materials in industrial applications, through either grafting or deposition of films or coatings, is an area of science and technology which interests numerous fields: fabrication of monolithic or composite parts, mechanics, transport (vehicle structure and motors), catalysis, energy production, microelectronics, optoelectronics, leisure industry, etc.

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A collection of 14 papers focusing on the physical and chemical properties of powders, with an emphasis on the relevance of these properties to technological considerations including health risks and fire hazards.

Powder processing. Characterizing the single particle. Characterization of powder. mixing and segregation in powders. the storage and flow of powders. Gas fluidization. Pneumatic conveying. Solid-gas separation. Size enlargement. Size reduction. Explosion and fire hazards of powders. health risks of fine powders. Flow of liquid-solid suspensions. Solid-liquid separation.

Particle breakage is an important process within a wide range of solids processing industries, including pharmaceuticals, food, agricultural and mining. Breakage of particles can be defined as intentional and unintentional, depending on whether it is desired or not. Through understanding of the science and underlying mechanisms behind this phenomenon, particle breakage can be either minimised or encouraged within an efficient and effective process. Particle Breakage examines particle breakage at three different length scales, ranging from single particle studies through groups of particles and looking at solid processing steps as a whole. This book is the widest ranging book in the field and includes the most up-to-date techniques such as Distinct Element Method (DEM), Monte Carlo simulations and Population Balance Equations (PBE). This handbook provides an overview of the current state-of-the-art and particle breakage. From the small scale of a single particle, to the study of whole processes for breakage; both by experimental study and mathematical modelling. * Covering a wide range of subjects and industrial applications * Allows the reader an understanding of the science behind engineered breakage processes * Giving an unrestrictive and interdisciplinary approach

Industrial processes involving handling of solid raw materials are highly dependent on our understanding of the fundamental characteristics and properties of the starting solid materials, as well as whether or not the related process hardware and operation are properly designed and optimized. This is true of almost all plastics manufacturing processes since particulate solids handling is the most elementary processing step. This book provides a broad understanding of powder technology and the significance of particulate solid characteristics that are applicable to plastics manufacturing processes. It focuses on the particular characteristics of solid materials relevant to plastics manufacturing processes. Applications of engineering principles based on the selected solid characteristics which illustrate the uniqueness of the subject are also included. The useful and practical information within offers engineers solutions to otherwise unclear problems commonly encountered in industry. The selected examples of research investigations provided should also inspire readers to formulate further fundamental as well as applied research studies on the inter- and intra-relationship between powder technology and plastics processing technology. Contents: - Introduction - Polymers, Additives, and Processing - Fundamental Parameters of Powder Characteristics - Solid-Solid Mixing - Storage and Discharge of Particulate Solids - Pneumatic Conveying of Particulate Solids - Gas Fluidization - Interparticle Forces - Effects of Particle Characteristics on Rheological Properties of Polymeric Melts

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

Compaction of powder constituents—both active ingredient and excipients—is examined to ensure consistent and reproducible disintegration and dispersion profiles. Revised to reflect modern pharmaceutical compacting techniques, this second edition of Pharmaceutical Powder Compaction Technology guides pharmaceutical engineers, formulation scientists, and product development and quality assurance personnel through the compaction formulation process and application. This unique reference covers: The physical structure of pharmaceutical compacts Bonding phenomena that occur during powder compaction Compression mechanisms of pharmaceutical particles Theories and basic principles of powder compaction New topics include: Compaction data analysis techniques The migration of powder constituents into commercial manufacture Instrumentation for compaction Compaction functionality testing, which is likely to become a USP requirement Design space for compaction Metrics required for scalability in tablet compression Interactive compaction and preformulation database for commonly used excipients

The operation of a powder mixer requires a knowledge not only of the mixing mechanisms but of the physical properties of the powders being mixed. Powder Mixing is unique in that it explores the relevant physics of the powder systems including characterization procedures and rheology, and contains an extensive review of different methods that have been employed to study the structure of mixtures. The techniques for achieving structured mixtures such as microencapsulation, and recent developments in deterministic chaos theory and fractal geometry as applied to the study of powder mixing systems, are reviewed. In particular, new techniques for studying the mixing powders based on avalanching theory and critically self-organized systems are studied. These are followed by a review of the wide range of different mixers commercially available and an extensive bibliography. Powder Mixing is an essential reference for all those interested in the basic science of powder mixing and the availability of industrial systems to achieve a mixture of different kinds. The main emphasis of the text is on working principles and operative systems, and is suitable for industrial workers, chemical engineers and students alike.

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

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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."

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.

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