

Particle Technology Series

José Manuel Valverde Millán

# Fluidization of Fine Powders

Cohesive versus Dynamical Aggregation

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 Springer

# Fluidization Of Fine Powders Cohesive Versus Dynamical Aggregation Particle Technology Series

**Jonathan P.K. Seville, Chuan-Yu Wu**



## **Fluidization Of Fine Powders Cohesive Versus Dynamical Aggregation Particle Technology Series:**

*Fluidization of Fine Powders* José Manuel Valverde Millán, 2012-10-12 This book covers the rich phenomenology exhibited by fine powders when they are fluidized by a gas flow Fine powder cohesiveness leads to poor flowability clumping difficulty in fluidizing irregular avalanching behavior etc Despite all the inconveniences fine powder processes pervade the chemical pharmaceutical agricultural and mining industries among others The author in this book analyzes the mechanism by which interparticle adhesive forces are reduced by means of surface additives Different techniques have been developed in the last years to assist fluidization by helping the gas flow to mobilize and break cohesive aggregates which help to homogenize fluidization As reviewed in this book the use of these techniques may have a relevant impact on novel processes based on fluidized beds of fine powder and with relevant applications on leading edge technologies such as Atomic Layer Deposition on nanoparticles and CO<sub>2</sub> capture by gas fluidized beds of adsorbent powders The study of fluidized beds has a marked interdisciplinary character This book is thus intended for academic and industrial researchers in applied physics mechanical chemical and environmental engineering who are interested in the special characteristics of fine powders **Organ**

**Specific Drug Delivery and Targeting to the Lungs** Ajit S. Narang, Ram I. Mahato, 2022-11-23 *Organ Specific Drug Delivery and Targeting to the Lungs* provides up to date information on the multidisciplinary field of particle engineering and drug delivery to the lungs including advancements of nanotechnology The text presents a unique pragmatic focus with case studies that help translate scientific understanding to practical implementation In addition to highlighting the successful case studies it also offers practical advice on watchouts limitations and bookend boundaries involved in the stages of testing and development Additional Features Include Provides an account of particle engineering discovery biology development and delivery in relation with the advancements of nanotechnology unlike any previous book Brings together the leading experts and researchers in the field to critically assess and discuss various topics influencing drug delivery Highlights the interplay of different scientific disciplines and the balance of requirements that are critical to molecule and product design With the strategic focus on what matters during new product development this book provides a guide to understanding and navigating new drug discovery and development for lung targets *Applied Mechanics Reviews*, 1989 **Dissertation Abstracts**

**International**, 2001 **Current Awareness in Particle Technology**, 1996 *Chemical Engineering Progress*, 2006

**Theoretical Chemical Engineering Abstracts**, 1984 *Comprehensive Dissertation Index*, 1989 *The Dynamics of Fine Powders* K. Rietema, 1991-08-31 flour potato starch cracking catalyst sand and gravel one will probably agree that the first four materials definitely are powders and the last one certainly is not Whether one would call sand a powder probably depends on the particle size and on personal views When the astronaut Neil Armstrong returned to the Earth from his trip on the surface of the Moon he stated The surface is fine and powdery I can kick it up loosely with my toe It does adhere in fine layers like powdered charcoal to the sole and inside of my boots I only go in a small fraction of an inch but I can see the

footprints of my boots and the treads in the fine sandy particles. These words clearly show that the behaviour of powders depends on the circumstances. In which respects are those on the Moon different from those on the Earth? 1 The gravitational force on the surface of the Moon is only one sixth of that on the Earth. 2 There is no gas on the Moon. The latter aspect means that any water brought there would evaporate and disappear immediately; hence powders on the Moon will always be perfectly dry so that cohesion between the separate particles due to liquid bridges will be zero.

*Hydrodynamics of a Pulse Fluidized Bed of Fine Powder* Gary G. Getz, Torab Hamid, 1989. Fine powders are not fluidized as readily as coarse powders. Because of their adhesive properties, fine powders tend to form channels which decrease the effectiveness of contact between particle and gas. Pulse fluidization overcomes the deficiencies of conventional fluidization by attenuating the formation of channels and slugs. The present study compares the pressure fluctuations of conventional and pulse fluidized beds of a fine powder. The results indicate that pulse fluidization improves contact efficiency by increasing the pressure drop and the apparent viscosity of the bed. The induced fluctuations of a pulse fluidized bed contain high frequency components indicating the presence of small dispersed bubbles; the free fluctuations of a conventional bed contain only low frequency components indicating large coalesced bubbles. By attenuating the formation of channels, stability is also improved, especially at low gas velocities.

**Continuous Dynamic Mixing of Cohesive Powders** Volker Kehlenbeck, 2006. Fluidization, Solids Handling, and Processing Wen-Ching Yang, 1998-12-31. This volume, *Fluidization Solids Handling and Processing*, is the first of a series of volumes on Particle Technology. Particles are important products of chemical process industries spanning the basic and specialty chemicals, agricultural products, pharmaceuticals, paints, dyestuffs and pigments, cement, ceramics and electronic materials. Solids handling and processing technologies are thus essential to the operation and competitiveness of these industries. Fluidization technology is employed not only in chemical production; it also is applied in coal gasification and combustion for power generation, mineral processing, food processing, soil washing and other related waste treatment, environmental remediation and resource recovery processes. The FCC (Fluid Catalytic Cracking) technology commonly employed in the modern petroleum refineries is also based on fluidization principles.

*Fluidization Characteristics of Fine Cohesive Powders in a Vibro-fluidized Bed* Yoshihide Mawatari, 2006. **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

### **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

### **Mechanical Properties of**

**Cohesionless and Cohesive Bulk Solids** Somik Chakravarty, 2018 Handling and processing of granular material release fine solid dust particles which in an occupational setting can severely affect worker health b the nature and magnitude of inter particle particle wall and particle fluid interactions c the evolution of dustiness and generation mechanisms for long duration powder applications The results indicate that the dust generation mechanisms differ based on particle size and size distribution of the powder For the given test samples and experimental conditions the differences in powder dustiness and dust emission patterns can be characterized by three different groups of powders powders containing fine cohesive particles bi modal consisting of fine and large particles powders and lastly powders consisting of only large particles While bulk cohesion especially that stemming from van der Waals forces measured using shear testers determines the level of dustiness for the fine powders in such a way that higher bulk cohesion leads to lower dustiness both the fraction of fine particles and cohesion determine the dustiness of bi modal powders The large particles can emit dust only through attrition of the primary

particles into smaller aerosolizable fine particles Analysis of a traced particle motion inside a cylindrical tube agitated by a vortex shaker dustiness tester shows the cyclic nature of the particle motion The motion position and velocity is symmetric and isotropic in the horizontal plane with lowest radial velocities close to the tube centre and highest at the boundary wall of the test tube The particles tend to rise up slowly in the middle of the tube while descending rapidly close to the wall The highest values of the velocity are found at the highest heights and close to the wall of the test tube where the population densities are lowest Increasing particle size and vortex rotation speeds tends to increase particle velocity whereas increase in powder mass leads to a decrease in particle velocity for rotation speeds up to 1500 rpm For the given samples silicon carbide alumina and acetylene coke and the experimental conditions the initial dustiness is determined by the fraction of fine respirable particles present in the powder but the long term dust generation patterns and levels are influenced by the material attrition behaviour Dust is generated by the fragmentation and or abrasion of primary particles which may lead to the production and emission of fine daughter particles as dust The samples with large irregularly shaped particles are likely to show high dustiness by shedding angular corners through inter particle and particle wall collisions thus becoming more spherical in shape On the contrary the smaller particles are more resistant to abrasion and generate relatively less dust While the vortex shaker dustiness tests show similar trends as an attrition tester our study using alumina and acetylene coke indicate that the results are not interchangeable Results from this thesis help understand the influence of powder and process parameters which may be manipulated to reduce dust generation Furthermore experimental results can be used to develop and validate numerical models to predict dustiness Fluidization of Cohesive Powders A. C. Y. Wong, 200?

**Fluidization and Discharge of Cohesive Powders** Egbert Marring, 1989 **Fluidization Behavior of Fine Powders and the Criterion of Classification of Group C Powders** Z. Wang, W. Chen, G. Chen, B. Zhang, H. Yan, 1988 **Handbook of Powder Science & Technology** Muhammed Fayed, Lambert Otten, 2013-11-27 Since the publication of the first edition of Canada and Australia have increased teach Handbook of Powder Science and Technology ing research and training activities in areas the field of powder science and technology has related to particle science and technology gained broader recognition and its various ar In addition it is worth mentioning the many eas of interest have become more defined and books and monographs that have been pub focused Research and application activities lished on specific areas of particle powder related to particle technology have increased and particle fluid by professional publishers globally in academia industry and research technical societies and university presses Also institutions During the last decade many to date there are many career development groups with various scientific technical and courses given by specialists and universities on engineering backgrounds have been founded various facets of powder science and technol to study apply and promote interest in areas ogy

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