

Powder Technology and  
Multiphase Systems: Gas  
Permeametry and Surface  
Area Measurement (Ellis  
Horwood series in chemical  
engineering)

gwe, Godwin Joseph Ifeanyichukw

Note: This is not the actual book cover

# Powder Technology And Multiphase Systems

**Raffaella Di Napoli**



## **Powder Technology And Multiphase Systems:**

**Powder Technology and Multiphase Systems** Godwin Joseph Ifeanyichukwu Igwe, 1991 Describes an original attempt to design an improved apparatus for the measurement of the surface area of powders Written primarily for those with limited experience in instrument design and analysis the book provides a methodological description of gas permeability and instrument design Multiphase Reactor Engineering for Clean and Low-Carbon Energy Applications Yi Cheng, Fei Wei, Yong Jin, 2017-02-21 Provides a comprehensive review on the brand new development of several multiphase reactor techniques applied in energy related processes Explains the fundamentals of multiphase reactors as well as the sophisticated applications Helps the reader to understand the key problems and solutions of clean coal conversion techniques Details the emerging processes for novel refining technology clean coal conversion techniques low cost hydrogen productions and CO2 capture and storage Introduces current energy related processes and links the basic principles of emerging processes to the features of multiphase reactors providing an overview of energy conversion in combination with multiphase reactor engineering Includes case studies of novel reactors to illustrate the special features of these reactors **Fast Fluidization**, 1994-12-23 Over the last decade circulating fluidization or fast fluidization has developed rapidly superseding standard bubbling fluidization in many applications for example fast fluidization provides a better means for controlling emissions from the combustion of high sulfur fuels and excels when used in boilers in steam plant and power stations China initiated the study of fast fluidization in the early 1970s Focusing on the substantial research cultivated in that country with Kwauk at the leading edge this latest volume in the Advances in Chemical Engineering Series is written in the context of the international state of the art and addresses some of the most vital issues surrounding this fluidization method **Computational Gas-Solids Flows and Reacting Systems: Theory, Methods and Practice** Pannala, Sreekanth, Syamlal, Madhava, O'Brien, Thomas J., 2010-09-30 This book provides various approaches to computational gas solids flow and will aid the researchers graduate students and practicing engineers in this rapidly expanding area Provided by publisher **Modeling Approaches and Computational Methods for Particle-laden Turbulent Flows** Shankar Subramaniam, S. Balachandar, 2022-10-20 Modelling Approaches and Computational Methods for Particle laden Turbulent Flows introduces the principal phenomena observed in applications where turbulence in particle laden flow is encountered while also analyzing the main methods for analyzing numerically The book takes a practical approach providing advice on how to select and apply the correct model or tool by drawing on the latest research Sections provide scales of particle laden turbulence and the principal analytical frameworks and computational approaches used to simulate particles in turbulent flow Each chapter opens with a section on fundamental concepts and theory before describing the applications of the modelling approach or numerical method Featuring explanations of key concepts definitions and fundamental physics and equations as well as recent research advances and detailed simulation methods this book is the ideal starting point for students new to this subject as well as an

essential reference for experienced researchers Provides a comprehensive introduction to the phenomena of particle laden turbulent flow Explains a wide range of numerical methods including Eulerian Eulerian Eulerian Lagrange and volume filtered computation Describes a wide range of innovative applications of these models Segregation in Vibrated Granular Systems Anthony D. Rosato, Christopher Windows-Yule, 2020-06-05 Segregation in Vibrated Granular Systems explains the individual mechanisms that influence the segregation of granular media under vibration along with their interactions Drawing on research from a wide range of academic disciplines the book focuses on vibrated granular systems that are used in industry providing a guide that will solve practical problems and help researchers The applications of vibration based segregation in industries including pharmaceuticals mining food and chemical processing are all investigated with appropriate examples In addition relevant theory behind the behavior of granular media and segregation processes is explained along with investigations of the technologies and techniques used Analyzes all phenomena involved in the vibration based segregation of bulk solids including those relating to size material properties and shape Explores how different segregation mechanisms interact Compares different technologies for investigating granular media including PIV MRI and X ray tomography Explains how to use computational techniques to model the behavior of granular media including DM CFD and FEM Pneumatic Conveying of Solids G.E. Klinzing, F. Rizk, R. Marcus, L.S. Leung, 2013-04-17 When the four of us decided to collaborate to write this book on pneumatic conveying there were two aspects which were of some concern Firstly how could four people who live on four different continents write a book on a fairly complex subject with such wide lines of communications Secondly there was the problem that two of the authors are chemical engineers It has been noted that the majority of chemical engineers who work in the field of pneumatic conveying research have spent most of their time considering flow in vertical pipes As such there was some concern that the book might be biased towards vertical pneumatic conveying and that the horizontal aspects which are clearly the most difficult would be somewhat neglected We hope that you as the reader are going to be satisfied with the fact that you have a truly international dissertation on pneumatic conveying and also that there is an even spread between the theoretical and practical aspects of pneumatic conveying technology Circulating Fluidized Bed Boilers Prabir Basu, 2015-04-07 Explains operation and scientific fundamentals of circulating fluidized bed CFB boilers Outlines practical issues in industrial use Teaches how to optimize design for maximum reliability and efficiency Discusses operating and maintenance issues and how to troubleshoot them This book provides practicing engineers and students with insight into the design and operation of circulating fluidized bed CFB boilers through a combination of theoretical concepts and practical experience An emphasis on combustion hydrodynamics heat transfer and material issues illustrates these concepts with numerous examples from actual operating plants The relevance of design and feed stock parameters to the operation of a CFB boiler are also examined along with their impacts on designs of mechanical components including cyclones air distributor grids and solid recycle systems This versatile resource explains how fluidized

bed equipment works and how the basic principles of thermodynamics and fluid mechanics influence design while providing insight into planning new projects troubleshooting existing equipment and appreciating the capabilities and limitations of the process From hydrodynamics to construction and maintenance the author covers all of the essential information needed to understand design operate and maintain a complete fluidized bed system It is a must for clean coal technology as well as for biomass power generation

*Parallel Computing in Multiphase Flow Systems Simulations* Sangtae Kim,George Karniadakis,Mary Katharine Vernon,1994 Symposium Series Institution of Chemical Engineers (Great Britain),1981

*Fixed Bed Operations* Vladimír Staněk,1994 Examining fixed bed systems from an engineering perspective this text describes systems where gases or liquids pass through a layer of solid particles These systems in widespread use in a number of industries include wastewater treatment hydrogen storage metallurgy and more

**Chemical Reactors for Gas-liquid Systems** František Kaštánek,1993 Originating from a research programme carried out at the Institute of Chemical Process Fundamentals Prague this volume aims to provide a review of current knowledge in the field of gas liquid reactors relating the results of theoretical studies to practical reactor design

*Handbook of Multiphase Systems* Gad Hetsroni,1982 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

**Chemical Engineering Education** ,2001 **Fluidization** Daizo Kunii,Ryozo Toei,1984 *Mass Transfer* J. A. Wesselingh,R. Krishna,1990 Examines mass transfer resistance in all chemical engineering processes from a single viewpoint arguing that mass transfer can be understood and analyzed without complex mathematics

Special Libraries ,1991 Vols for 1980 include Annual directory issue **Non-Newtonian Flow and Applied Rheology** R. P. Chhabra,Swati A. Patel,2025-03-01 Non Newtonian Flow and Applied Rheology Engineering Applications Third Edition bridges the gap between the theoretical work of the rheologist and the practical needs of those who have to design and operate the systems in which these materials are handled or processed This new edition addresses the rapid advances that are occurring in all aspects of the topics covered in this book such as new measurement techniques or new constitutive equations and more reliable information based on numerical simulations New solved examples are added in each chapter along with a list of problems at the end of the book This is an established and important reference for senior level mechanical engineers chemical and process engineers as well as any engineer or scientist who needs to study or work with these fluids including pharmaceutical engineers mineral processing engineers medical researchers water and civil engineers Extensively revised and expanded with material on new measurement techniques new constitutive equations and information based on numerical simulations Covers both basic rheology and fluid mechanics in non Newtonian fluids making it a truly self contained reference for anyone studying or working with the processing and handling of fluids Provides solved examples to illustrate and or aid understanding of the concepts Written by a world s leading expert in an accessible style *The Proceedings of the ... International Conference on Fluidized-Bed Combustion* ,1995 **Heat Exchange Engineering:**

**Design of heat exchangers** E. A. Fouteny, P. J. Heggs, 1991 The first of a two volume work designed to provide information on the design aspects of thermal systems and to review research and development on the improvement of design and performance Emphasis is placed on conservation aspects This book focuses on the design of heat exchangers

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