



Spouted Beds

Gwo-Bin Chen



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Spouted Beds Kishan Mather, 2012-12-02 *Spouted Beds* is a comprehensive 13 chapter book that covers the spouting phenomenon and the special features and applications of spouted beds After briefly discussing the history and features of spouted bed compared to fluidized bed the book deals with the fluid and solid dynamics of spouted beds The book then gives a description of the internal geometrical structure of a stable bed as well as the estimation of maximum spoutable bed depth The subsequent chapters examine the attrition and heat and mass transfer in spouted beds both between fluid and particles and within particles The book further discusses theoretical aspects on using a spouting bed in carrying out gas phase chemical reaction It also describes the application of spouted bed to a large variety of mechanical thermal diffusional and chemical processes whether on the bench pilot or commercial scale This is followed by a discussion on the various process and equipment modifications to a standard spouted bed that have been devised to achieve specific ends The final chapter outlines some practical hints for the benefit of the spouted bed designer and operator This book is an ideal resource text to spouted bed designers operators and manufacturers *Spouted and Spout-Fluid Beds* Norman Epstein, John R.

Grace, 2010-12-23 Since the pioneering text by Mathur and Epstein over 35 years ago much of the work on this subject has been extended or superseded producing an enormous body of scattered literature This edited volume unifies the subject pulling material together and underpinning it with fundamental theory to produce the only complete up to date reference on all major areas of spouted bed research and practice With contributions from internationally renowned research groups this book guides the reader through new developments insights and models The hydrodynamic and reactor models of spouted and spout fluid beds are examined as well as such topics as particle segregation heat and mass transfer mixing and scale up Later chapters focus on drying particle coating and energy related applications based on spouted and spout fluid beds This is a valuable resource for chemical and mechanical engineers in research and industry **The Characteristics of Spouted Beds** Gwo-Bin Chen, 1981

Heat Transfer in Spouted Beds M. A. Malek, 1963 Spouted Beds Kishan Mather, Norman Epstein, 1974-01-28 *Spouted Beds* is a comprehensive 13 chapter book that covers the spouting phenomenon and the special features and applications of spouted beds After briefly discussing the history and features of spouted bed compared to fluidized bed the book deals with the fluid and solid dynamics of spouted beds The book then gives a description of the internal geometrical structure of a stable bed as well as the estimation of maximum spoutable bed depth The subsequent chapters examine the attrition and heat and mass transfer in spouted beds both between fluid and particles and within particles The book further discusses theoretical aspects on using a spouting bed in carrying out gas phase chemical reaction It also describes the application of spouted bed to a large variety of mechanical thermal diffusional and chemical processes whether on the bench pilot or commercial scale This is followed by a discussion on the various process and equipment modifications to a standard spouted bed that have been devised to achieve specific ends The final chapter outlines some

practical hints for the benefit of the spouted bed designer and operator This book is an ideal resource text to spouted bed designers operators and manufacturers

Pressure Drop in Spouted Beds Ricardo Felipe Lama,1957

Handbook of Fluidization and Fluid-Particle Systems Wen-Ching Yang,2003-03-19 This reference details particle characterization dynamics manufacturing handling and processing for the employment of multiphase reactors as well as procedures in reactor scale up and design for applications in the chemical mineral petroleum power cement and pharmaceuticals industries The authors discuss flow through fixed beds elutriation and entrainment gas distributor and plenum design in fluidized beds effect of internal tubes and baffles general approaches to reactor design applications for gasifiers and combustors dilute phase pneumatic conveying and applications for chemical production and processing This is a valuable guide for chemists and engineers to use in their day to day work

Fluid Bed Technology in Materials Processing C. K. Gupta,D. Sathiyamoorthy,1998-12-28 Fluid Bed Technology in Materials Processing comprehensively covers the various aspects of fluidization engineering and presents an elaborate examination of the applications in a multitude of materials processing techniques This singular resource discusses All the basic aspects of fluidization essential to understand and learn about various techniques The range of industrial applications Several examples in extraction and process metallurgy Fluidization in nuclear engineering and nuclear fuel cycle with numerous examples Innovative techniques and several advanced concepts of fluidization engineering including use and applications in materials processing as well as environmental and bio engineering Pros and cons of various fluidization equipment and specialty of their applications including several examples Design aspects and modeling Topics related to distributors effects and flow regimes A separate chapter outlines the importance of fluidization engineering in high temperature processing including an analysis of the fundamental concepts and applications of high temperature fluidized bed furnaces for several advanced materials processing techniques Presenting information usually not available in a single source Fluid Bed Technology in Materials Processing serves Fluidization engineers Practicing engineers in process metallurgy mineral engineering and chemical metallurgy Researchers in the field of chemical metallurgical nuclear biological environmental engineering Energy engineering professionals High temperature scientists and engineers Students and professionals who adopt modeling of fluidization in their venture for design and scale up

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A Theoretical and Experimental Investigation of Spouted Beds with Draft Tubes Mao Xu,1994

Computational Methods in Multiphase Flow VII C. A. Brebbia,P. Vorobieff,2013-07-03 Multiphase flows are found in all areas of technology at all length scales and flow regimes and can involve compressible or incompressible linear or nonlinear fluids However although they are ubiquitous multiphase flows continue to be one of the most challenging areas of computational mechanics with numerous problems as yet unsolved Advanced computational and experimental methods are often required to solve the equations that describe such complex problems The many challenges that must be faced in solving them include modelling nonlinear fluids modelling and tracking interfaces dealing with multiple length scales characterising phase structures and treating drop break up and coalescence It is important to validate models which calls for the use of expensive and difficult experimental techniques This book presents contributions on the latest research in the techniques for solving multiphase flow problems presented at the seventh in a biennial series of conferences on the subject that began in 2001 Featured topics include Flow in porous media Turbulent flow Multiphase flow simulation Image processing Heat transfer Atomization Interface behaviour Oil and gas applications Experimental measurements Energy applications Biological flows Micro and macro fluids Compressible flows

Residence Time Distribution of Solids in Staged Spouted Beds Enrique Arriola,1997

CJChE ,2004-02

Transport Phenomena In Particulate Systems José Teixeira Freire, Ana Maria da Silveira, Maria do Carmo Ferreira,2012-03-31 This e book presents recent advances in research in the field of particulate systems A comprehensive background on operations involving particulate materials with a didactic approach is illustrated Fundamentals and applications in a variety of multi phase flow reactors are explained with a clear focus on the analysis of transport phenomena experimental techniques and modeling The volume spans 10 chapters covering different aspects of transport phenomena including fixed and fluidized systems spouted beds electrochemical and wastewater treatment reactors This e book will be valuable for students engineers and researchers aiming to keep updated on the latest developments on particulate systems

An Experimental and Modeling Study of Spouted Beds for Combustion Applications Ravil K. N. V. Konduri,1994

An Experimental Investigation of Large Scale Spouted Beds Michael C. Green,Oxford Univ. (GB),1981

Study of Solids Circulation in Spouted Beds Abdelhakim Benkrid,1988 The solids circulation in the annular region of semi

cylindrical and cylindrical air spouted beds was investigated experimentally and theoretically for different spouting conditions Abstract p ix *Recueil factice d'articles de presse concernant Francesca Bertini* ,

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