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# Heat And Mass Transfer In Fixed And Fluidized Beds

**R. P. Chhabra, Basavaraj Gurappa**



## **Heat And Mass Transfer In Fixed And Fluidized Beds:**

*Heat and Mass Transfer in Fixed and Fluidized Beds* W. P. M. van Swaaij, Naim Afgan, 1986 *Heat and Mass Transfer in Fixed and Fluidized Beds*, *Fossil Energy Update*, 1985 *Fluidized Bed Technologies for Near-Zero Emission Combustion and Gasification* Fabrizio Scala, 2013-09-30 Fluidized bed FB combustion and gasification are advanced techniques for fuel flexible high efficiency and low emission conversion Fuels are combusted or gasified as a fluidized bed suspended by jets with sorbents that remove harmful emissions such as SO<sub>x</sub> CO<sub>2</sub> capture can also be incorporated Fluidized bed technologies for near zero emission combustion and gasification provides an overview of established FB technologies while also detailing recent developments in the field Part one an introductory section reviews fluidization science and FB technologies and includes chapters on particle characterization and behaviour properties of stationary and circulating fluidized beds heat and mass transfer and attrition in FB combustion and gasification systems Part two expands on this introduction to explore the fundamentals of FB combustion and gasification including the conversion of solid liquid and gaseous fuels pollutant emission and reactor design and scale up Part three highlights recent advances in a variety of FB combustion and gasification technologies before part four moves on to focus on emerging CO<sub>2</sub> capture technologies Finally part five explores other applications of FB technology including FB petroleum refining and chemical production Fluidized bed technologies for near zero emission combustion and gasification is a technical resource for power plant operators industrial engineers working with fluidized bed combustion and gasification systems and researchers scientists and academics in the field Examines the fundamentals of fluidized bed FB technologies including the conversion of solid liquid and gaseous fuels Explores recent advances in a variety of technologies such as pressurized FB combustion and the measurement monitoring and control of FB combustion and gasification Discusses emerging technologies and examines applications of FB in other processes [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

Atmospheric Fluidized Bed Coal Combustion M. Valk, 2013-10-22 The use of fluidized bed coal combustion technology has been developed in the past decade in The Netherlands with a view to expanding the industrial use of coal as an energy supply Various research groups from universities institutes for applied science and from boiler industries participated and contributed to this research area Comprehensive results of such recent experimentation and development work on atmospheric fluidized bed combustion of coal are covered in this volume Each chapter written by an expert treats one specific subject and gives both the theoretical background as well as experimental results and verifications Though the contents deal primarily with coal combustion much information proved applicable and relevant for the combustion or incineration of other solid fuels and waste in a fluidized bed Results of extended research and fundamental backgrounds are presented in order to provide the designer and operator of fluidized bed combustors with more complete and systematic information needed for an optimal design and operation The design and operating experience of a full scale fluidized bed boiler are discussed and compared with the results of theoretical and experimental research on pilot plant scale

**Handbook of Industrial Drying, Fourth Edition** Arun S. Mujumdar, 2014-07-11 By far the most commonly encountered and energy intensive unit operation in almost all industrial sectors industrial drying continues to attract the interest of scientists researchers and engineers The Handbook of Industrial Drying Fourth Edition not only delivers a comprehensive treatment of the current state of the art but also serves as a consultative reference for streamlining industrial drying operations New to the Fourth Edition Computational fluid dynamic simulation Solar impingement and pulse combustion drying Drying of fruits vegetables sugar biomass and coal Physicochemical aspects of sludge drying Life cycle assessment of drying systems Covering commonly encountered dryers as well as innovative dryers with future potential the Handbook of Industrial Drying Fourth Edition not only details the latest developments in the field but also explains how improvements in dryer design and operation can increase energy efficiency and cost effectiveness

**Transport**

**Phenomena in Multiphase Systems** Hamid Arastoopour, Dimitri Gidaspow, Robert W. Lyczkowski, 2021-08-21 This volume fills the need for a textbook presenting basic governing and constitutive equations followed by several engineering problems on multiphase flow and transport that are not provided in current advanced texts monographs or handbooks The unique emphasis of this book is on the sound formulation of the basic equations describing multiphase transport and how they can be used to design processes in selected industrially important fields The clear underlying mathematical and physical bases of the interdisciplinary description of multiphase flow and transport are the main themes along with advances in the kinetic theory for particle flow systems The book may be used as an upper level undergraduate or graduate textbook as a reference by professionals in the design of processes that deal with a variety of multiphase systems and by practitioners and experts in multiphase science in the area of computational fluid dynamics CFD at U S national laboratories international universities research laboratories and institutions and in the chemical pharmaceutical and petroleum industries Distinct from other books on multiphase flow this volume shows clearly how the basic multiphase equations can be used in the design and scale up of multiphase processes The authors represent a combination of nearly two centuries of experience and innovative application of multiphase transport representing hundreds of publications and several books This book serves to encapsulate the essence of their wisdom and insight and

*Mesoscale Modeling in Chemical Engineering Part I*, 2015-11-26 Focusing Mesoscales of Multiscale Problems in Chemical Engineering a volume in the Advances in Chemical Engineering series provides readers with the personal views of recognized authorities who present assessments of the state of the art in the field and help readers develop an understanding of its further evolution Subjects covered in the book are not limited to the classical chemical engineering disciplines Contributions connecting chemical engineering to related scientific fields either providing a fundamental basis or introducing new concepts and tools are encouraged This volume aims to create a balance between well developed areas such as process industry transformation of materials energy and environmental issues and areas where applications of chemical engineering are more recent or emerging Contains reviews by leading authorities in their respective areas Provides up to date reviews of the latest techniques in the modeling of catalytic processes Includes a broad mix of US and European authors as well as academic industrial research institute perspectives Provides discussions on the connections between computation and experimental methods

*Heat and Mass Transfer in the Flow of Fluids Through Fixed and Fluidized Beds of Spherical Particles and Other Commercial Packings* Ashis Kumar Sen Gupta, 1961

**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 CO<sub>2</sub> capture and storage Introduces

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and practical guidelines for lab scale testing of multiphase reactors Includes mathematical content focused on design equations and empirical relationships characterizing different multiphase reactor types together with an assortment of computational tools Involves detailed coverage of multiphase reactor applications such as Fischer Tropsch synthesis fuel processing for fuel cells hydrotreating of oil fractions and biofuels processing Process Modelling and Simulation in Chemical, Biochemical and Environmental Engineering Ashok Kumar Verma, 2014-10-17 The use of simulation plays a vital part in developing an integrated approach to process design By helping save time and money before the actual trial of a concept this practice can assist with troubleshooting design control revamping and more Process Modelling and Simulation in Chemical Biochemical and Environmental Engineering explores effective modeling and simulation approaches for solving equations Using a systematic treatment of model development and simulation studies for chemical biochemical and environmental processes this book explains the simplification of a complicated process at various levels with the help of a model sketch It introduces several types of models examines how they are developed and provides examples from a wide range of applications This includes the simple models based on simple laws such as Fick's law models that consist of generalized equations such as equations of motion discrete event models and stochastic models which consider at least one variable as a discrete variable and models based on population balance Divided into 11 chapters this book Presents a systematic approach of model development in view of the simulation need Includes modeling techniques to model hydrodynamics mass and heat transfer and reactors for single as well as multi phase systems Provides stochastic and population balance models Covers the application and development of artificial neural network models and hybrid ANN models Highlights gradients based techniques as well as statistical techniques for model validation and sensitivity analysis Contains examples on development of analytical stochastic numerical and ANN based models and simulation studies using them Illustrates modeling concepts with a wide spectrum of classical as well as recent research papers Process Modelling and Simulation in Chemical Biochemical and Environmental Engineering includes recent trends in modeling and simulation e.g artificial neural network ANN based models and hybrid models It contains a chapter on flowsheeting and batch processes using commercial open source software for simulation **Introduction to Chemical Engineering Kinetics and Reactor Design**

**Design** Charles G. Hill, Thatcher W. Root, 2014-05-27 The Second Edition features new problems that engage readers in contemporary reactor design Highly praised by instructors students and chemical engineers Introduction to Chemical Engineering Kinetics Reactor Design has been extensively revised and updated in this Second Edition The text continues to offer a solid background in chemical reaction kinetics as well as in material and energy balances preparing readers with the foundation necessary for success in the design of chemical reactors Moreover it reflects not only the basic engineering science but also the mathematical tools used by today's engineers to solve problems associated with the design of chemical reactors Introduction to Chemical Engineering Kinetics Reactor Design enables readers to progressively build their

knowledge and skills by applying the laws of conservation of mass and energy to increasingly more difficult challenges in reactor design The first one third of the text emphasizes general principles of chemical reaction kinetics setting the stage for the subsequent treatment of reactors intended to carry out homogeneous reactions heterogeneous catalytic reactions and biochemical transformations Topics include Thermodynamics of chemical reactions Determination of reaction rate expressions Elements of heterogeneous catalysis Basic concepts in reactor design and ideal reactor models Temperature and energy effects in chemical reactors Basic and applied aspects of biochemical transformations and bioreactors About 70% of the problems in this Second Edition are new These problems frequently based on articles culled from the research literature help readers develop a solid understanding of the material Many of these new problems also offer readers opportunities to use current software applications such as Mathcad and MATLAB By enabling readers to progressively build and apply their knowledge the Second Edition of Introduction to Chemical Engineering Kinetics Reactor Design remains a premier text for students in chemical engineering and a valuable resource for practicing engineers

Modeling in Transport Phenomena  
Ismail Tosun, 2007-07-17 Modeling in Transport Phenomena Second Edition presents and clearly explains with example problems the basic concepts and their applications to fluid flow heat transfer mass transfer chemical reaction engineering and thermodynamics A balanced approach is presented between analysis and synthesis students will understand how to use the solution in engineering analysis Systematic derivations of the equations and the physical significance of each term are given in detail for students to easily understand and follow up the material There is a strong incentive in science and engineering to understand why a phenomenon behaves the way it does For this purpose a complicated real life problem is transformed into a mathematically tractable problem while preserving the essential features of it Such a process known as mathematical modeling requires understanding of the basic concepts This book teaches students these basic concepts and shows the similarities between them Answers to all problems are provided allowing students to check their solutions Emphasis is on how to get the model equation representing a physical phenomenon and not on exploiting various numerical techniques to solve mathematical equations A balanced approach is presented between analysis and synthesis students will understand how to use the solution in engineering analysis Systematic derivations of the equations as well as the physical significance of each term are given in detail Many more problems and examples are given than in the first edition answers provided

*Transport Processes in Fluidized Bed Reactors* L. K. Doraiswamy, B. D. Kulkarni, 1988



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