# Multiphase Flow and Fluidization

Dimitri Gidaspow

Continuum and Kinetic Theory Descriptions



Stefan Radl, Jiří Jaromír Klemeš, Petar Sabev Varbanov, Thomas Wallek

Multiphase Flow and Fluidization Dimitri Gidaspow, 1994-01-18 It clarifies many physical concepts such as particulate viscosity and solids pressure and introduces the new dependent variable the volume fraction of the dispersed phase Exercises are provided for further study and lead into applications not covered in the text itself Multiphase Flow Handbook Efstathios Michaelides, Clayton T. Crowe, John D. Schwarzkopf, 2016-10-26 The Multiphase Flow Handbook Second Edition is a thoroughly updated and reorganized revision of the late Clayton Crowe's work and provides a detailed look at the basic concepts and the wide range of applications in this important area of thermal fluids engineering Revised by the new editors Efstathios E Stathis Michaelides and John D Schwarzkopf the new Second Edition begins with two chapters covering fundamental concepts and methods that pertain to all the types and applications of multiphase flow The remaining chapters cover the applications and engineering systems that are relevant to all the types of multiphase flow and heat transfer The twenty one chapters and several sections of the book include the basic science as well as the contemporary engineering and technological applications of multiphase flow in a comprehensive way that is easy to follow and be understood The editors created a common set of nomenclature that is used throughout the book allowing readers to easily compare fundamental theory with currently developing concepts and applications With contributed chapters from sixty two leading experts around the world the Multiphase Flow Handbook Second Edition is an essential reference for all researchers academics and engineers working with complex thermal and fluid systems Multiphase Flows Chao Zhu, Liang-Shih Fan, Zhao Yu, 2021-06-17 Understand multiphase flows using multidisciplinary knowledge in physical principles modelling theories and engineering practices. This essential text methodically introduces the important concepts governing mechanisms and state of the art theories using numerous real world applications examples and problems Covers all major types of multiphase flows including gas solid gas liquid sprays or bubbling liquid solid and gas solid liquid flows Introduces the volume time averaged transport theorems and associated Lagrangian trajectory modelling and Eulerian Eulerian multi fluid modelling Explains typical computational techniques measurement methods and four representative subjects of multiphase flow systems Suitable as a reference for engineering students researchers and practitioners this text explores and applies fundamental theories to the analysis of system performance using a case based Multiphase Flow Handbook Clayton T. Crowe, 2005-09-19 Because of the importance of multiphase flows in a approach wide variety of industries including power petroleum and numerous processing industries an understanding of the behavior and underlying theoretical concepts of these systems is critical Contributed by a team of prominent experts led by a specialist with more than thirty years of experience the Multiphase Flow Handbook provides such an understanding and much more It covers all aspects of multiphase flows from fundamentals to numerical methods and instrumentation The book begins with an introduction to the fundamentals of particle fluid bubble interactions followed by gas liquid flows and methods

for calculating system parameters It includes up to date information on practical industrial applications such as boiling and condensation fluidized beds aerosols separation systems pollution control granular and porous media flow pneumatic and slurry transport and sprays Coverage then turns to the most recent information on particle droplet fluid interactions with a chapter devoted to microgravity and microscale flows and another on basic multiphase interactions Rounding out the presentation the authors discuss numerical methods state of the art instrumentation and advanced experimental techniques Supplying up to date authoritative information on all aspects of multiphase flows along with numerous problems and examples the Multiphase Flow Handbook is the most complete reference available for understanding the flow of multiphase Computational Methods in Multiphase Flow V Andrea Alberto Mammoli, C. A. Brebbia, 2009 Together with turbulence multiphase flow remains one of the most challenging areas of computational mechanics and experimental methods and numerous problems remain unsolved to date Multiphase flows are found in all areas of technology at all length scales and flow regimes The fluids involved can be compressible or incompressible linear or nonlinear Because of the complexity of the problems it is often essential to utilize advanced computational and experimental methods to solve the complex equations that describe them Challenges in these simulations include modelling and tracking interfaces dealing with multiple length scales modelling nonlinear fluids treating drop breakup and coalescence characterizing phase structures and many others Experimental techniques although expensive and difficult to perform are essential to validate models This book contains papers presented at the Fifth International Conference on Computational Methods in Multiphase Flow which are grouped into the following topics Multiphase Flow Simulation Interaction of Gas Liquids and Solids Turbulent Flow Environmental Multiphase Flow Bubble and Drop Dynamics Flow in Porous Media Heat Transfer Image Processing Interfacial Behaviour Computational Transport Phenomena of Multiphase Systems and Fluidization Huilin Lu, Guodong Liu, Qinghong Zhang, Xiaoxue Jiang, Boxue Pang, Wenjian Cai, 2025-02-19 This book focuses on the modeling of gas solid liquid solid non Newtonian fluid solid and supercritical fluid solid fluidized beds and multiphase flows Simulation techniques are categorized into Euler Euler with kinetic theory of granular flow KTGF and Euler Lagrange with discrete element method DEM approaches Both the governing equations and numerical implementations are presented A new CFD KTGF DEM approach describes phase interactions free from the empirical restitution coefficient used in KTGF and accounts for turbulence effects on discrete particle motion which DEM cannot achieve Additionally a low Stokes number KTGF model is introduced incorporating the interstitial fluid s effect unlike the classical KTGF which assumes vacuum conditions Special attention is given to momentum exchange between heterogeneous and homogeneous flows in fluidized beds and multiphase systems and various multiscale drag models are presented The book also discusses the application of these approaches in fluid solid fluidized bed reactors and oil gas drilling processes Chemical Reactor Modeling Hugo A. Jakobsen, 2008-10-15 Chemical Reactor Modeling closes the gap between Chemical Reaction Engineering and Fluid Mechanics It presents the

fundamentals of the single fluid and multi fluid models for the analysis of single and multiphase reactive flows in chemical reactors with a chemical reactor engineering rather than mathematical bias The book discusses numerical methods for solving the resulting equations as well as the interplay between physical and numerical modes It is organized in 12 chapters combining theoretical aspects and practical applications and covers some of the recent research in several areas of chemical reactor engineering This book contains a survey of the modern literature in the field of chemical reactor modeling The book is written by a Chemical Engineer for Chemical Process Engineers using the standard terminology of this community It is intended for researchers and engineers who want to develop their own codes or who are interested in a deeper insight into commercial CFD codes in order to derive consistent extensions and to overcome black box practice It can also serve as a textbook and reference book for both students and practitioners

28th European Symposium on Computer Aided Process Engineering Stefan Radl, Jiří Jaromír Klemeš, Petar Sabev Varbanov, Thomas Wallek, 2018-06-26 28th European Symposium on Computer Aided Process Engineering ESCAPE event held in Graz Austria June 10 13 2018 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 28th European Society of Computer Aided Process Engineering ESCAPE event

Topics in Multiphase Transport Phenomena Robert W. Lyczkowski, Dimitri Gidaspow, 2020-01-17 Chapter 1 A Fluid Porous Solid Reaction Model With Structural Changes supplies details on modeling reactions with porous catalysts The unique feature of this chapter is the pore closing pore opening condition This analysis is particularly useful for improving the design of storage batteries Until the publication of A Model for Discharge of Storage Batteries by Dimitri Gidaspow and Bernard S Baker Journal of the Electrochemical Society 120 1005 1010 1973 the discharge of batteries was described by a purely empirical equation as a function of time Chapter 2 Kinetics of the Reaction of CO2 With Solid K2CO3 complements U S patent No 3 865 924 February 11 1975 by Dimitri Gidaspow and Michael Onischak on rates of carbon dioxide CO2 capture These rates of reaction were measured in a parallel plate channel at several laminar flow velocities An integral equation flow analysis was used to obtain diffusion independent rates of reactions Chapter 3 Silicon Deposition Reactor Using High Voltage Heating describes an internally heated fluidized bed with no size limitations and with no bubble formation and its simulation Chapter 4 Alternative Methods of Deriving Multiphase Field Equations constitutes a literature review of approaches that have been used and or proposed in the literature to derive multiphase flow equations which could form the basis of the theory and computation of dense suspensions of particulates such as coal water slurries or blood flow

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