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Principles of Gas-Solid Flows



Liang-Shih Fan and Chao Zhu

Principles Of Gas Solid Flows

Kaiqiao Wu



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Principles of Gas-Solid Flows Liang-Shih Fan, Chao Zhu, Jian Zhang, 1998 Discusses fundamental principles of gas solid flows and their applications and includes numerous examples and homework problems

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

Multiphase Flow Handbook Clayton T. Crowe, 2005-09-19 Because of the importance of multiphase flows in a 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 mixtures

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 Efsthios 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

Dynamics of Multiphase Flows Chao Zhu,Liang-Shih Fan,Zhao Yu,2021-06-17 Address physical principles and unified theories governing multiphase flows with methods applications and problems 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 Handbook of Fluid Dynamics Richard W. Johnson,2016-04-06 Handbook of Fluid Dynamics offers balanced coverage of the three traditional areas of fluid dynamics theoretical computational and experimental complete with valuable appendices presenting the mathematics of fluid dynamics tables of dimensionless numbers and tables of the properties of gases and vapors Each chapter introduces a different fluid dynamics topic discusses the pertinent issues outlines proven techniques for addressing those issues and supplies useful references for further research Covering all major aspects of classical and modern fluid dynamics this fully updated Second Edition Reflects the latest fluid dynamics research and engineering applications Includes new sections on emerging fields most notably micro and nanofluidics Surveys the range of numerical and computational methods used in fluid dynamics analysis and design Expands the scope of a number of contemporary topics by incorporating new experimental methods more numerical approaches and additional areas for the application of fluid dynamics Handbook of Fluid Dynamics Second Edition provides an indispensable resource for professionals entering the field of fluid dynamics The book also enables experts specialized in areas outside fluid dynamics to become familiar with the field **On the Maximum Principle for Some Gas-solid Flows** L. Combe,J. M. Herard,1998 Granular Gas Dynamics Thorsten

Pöschel, Nikolai V. Brilliantov, 2003-10-16 The contributions in this book address both the kinetic approach one using the Boltzmann equation for dissipative gases as well as the less established hydrodynamic description The last part of the book is devoted to driven granular gases and their analogy with molecular fluids **Gas-solid Flows, 1991** David E. Stock, 1991

Gas-solid Flows, 1993 Essentials of Fluidization Technology John R. Grace, Xiaotao Bi, Naoko Ellis, 2020-06-15 A concise and clear treatment of the fundamentals of fluidization with a view to its applications in the process and energy industries *Dynamically Structured Flow in Pulsed Fluidised Beds* Kaiqiao Wu, 2021-03-27 This book analyses the use of a pulsed gas flow to structure bubbling gas solid fluidised beds and to induce a special fluidisation state called dynamically structured flow as a promising approach to process intensification It explores the properties of bubbles rising in staggered periodic arrays without direct interaction assessing their size separation and velocity and explains how a highly uniform scalable flow offers tight control over the system hydrodynamics These features are desirable as they not only bypass engineering challenges occurring in traditional operations such as maldistribution and non uniform contact but also allow to decouple conflicting design objectives such as mixing and gas solid contact The thesis also presents computational simulations which reveal the periodic transitions of the particulate phase between fluid like and solid like behaviour This book will be of interest to researchers engineers and graduate students alike particularly those working in industrial drying combustion and chemical production Numerical Simulation for Next Generation Thermal Power Plants Falah Alobaid, 2018-03-29 The book provides highly specialized researchers and practitioners with a major contribution to mathematical models developments for energy systems First dynamic process simulation models based on mixture flow and two fluid models are developed for combined cycle power plants pulverised coal fired power plants concentrated solar power plant and municipal waste incineration Operation data obtained from different power stations are used to investigate the capability of dynamic models to predict the behaviour of real processes and to analyse the influence of modeling assumptions on simulation results Then a computational fluid dynamics CFD simulation programme so called DEMEST is developed Here the fluid solid particle particle and particle wall interactions are modeled by tracking all individual particles To this purpose the deterministic Euler Lagrange Discrete Element Method DEM is applied and further improved An emphasis is given to the determination of inter phase values such as volumetric void fraction momentum and heat transfers using a new procedure known as the offset method and to the particle grid method allowing the refinement of the grid resolution independently from particle size Model validation is described in detail Moreover thermochemical reaction models for solid fuel combustion are developed based on quasi single phase two fluid and Euler Lagrange MP PIC models Measurements obtained from actual power plants are used for validation and comparison of the developed numerical models **Rheology of Complex Fluids** Abhijit P. Deshpande, J. Murali Krishnan, Sunil Kumar, 2010-09-20 The aim of the School on Rheology of Complex fluids is to bring together young researchers and teachers from educational and R D institutions and expose them to the basic concepts

and research techniques used in the study of rheological behavior of complex fluids The lectures will be delivered by well recognized experts The book contents will be based on the lecture notes of the school

Computational Transport Phenomena of Multiphase Systems and Fluidization Huilin Lu,Guodong Liu,Qinghong Zhang,Xiaoxue Jiang,Boxue Pang,Wenjia 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

Mach Wave and Acoustical Wave Structure in Nonequilibrium Gas-Particle Flows Joseph T. C. Liu,2021-10-07 In this Element the gas particle flow problem is formulated with momentum and thermal slip that introduces two relaxation times Starting from acoustical propagation in a medium in equilibrium the relaxation wave equation in airfoil coordinates is derived though a Galilean transformation for uniform flow Steady planar small perturbation supersonic flow is studied in detail according to Whitham s higher order waves The signals owing to wall boundary conditions are damped along the frozen Mach wave and are both damped and diffusive along an effective intermediate Mach wave and diffusive along the equilibrium Mach wave where the bulk of the disturbance propagates The surface pressure coefficient is obtained exactly for small disturbance theory but it is considerably simplified for the small particle to gas mass loading approximation equivalent to a simple wave approximation Other relaxation wave problems are discussed Martian dust storm properties in terms of gas particle flow parameters are estimated

CFD Modeling of Complex Chemical Processes Li Xi,De-Wei Yin,Jae Sung Park,2021-09-01 Computational fluid dynamics CFD which uses numerical analysis to predict and model complex flow behaviors and transport processes has become a mainstream tool in engineering process research and development Complex chemical processes often involve coupling between dynamics at vastly different length and time scales as well as coupling of different physical models The multiscale and multiphysics nature of those problems calls for delicate modeling approaches This book showcases recent contributions in this field from the development of modeling methodology to its application in supporting the design development and optimization of engineering processes

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