Mamoru Ishii Takashi Hibiki

Thermo-Fluid Dynamics of Two-Phase Flow

Second Edition



Thermo Fluid Dynamics Of Two Phase Flow

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Engineering and Chemical Engineering as well as a basic reference book for two phase flow formulations for researchers and engineers involved in solving multiphase flow problems in various technological fields. The principles of single phase flow fluid dynamics and heat transfer are relatively well understood however two phase flow thermo fluid dynamics is an order of magnitude more complicated subject than that of the sing phase flow due to the existence of moving and deformable interface and its interactions with the two phases. However in view of the practical importance of two phase flow in various modem engineering technologies related to nuclear energy chemical engineering processes and advanced heat transfer systems significant efforts have been made in recent years to develop accurate general two phase formulations mechanistic models for interfacial transfer and interfacial structures and computational methods to solve these predictive models

Thermo-fluid Dynamics of Separated Two-phase Flow Gunol Kocamustafaogullari, GEORGIA INST OF TECH ATLANTA SCHOOL OF MECHANICAL ENGINEERING., 1971 A general thermo fluid dynamic formulation of separated two phase flow has been provided and used for the analysis of various dynamic aspects of the film flow regime The conservation equations which are expressed both in terms of the two fluid model and of the diffusional i e drift model were derived from the space averaging procedure and take into account the effects of surface phenomena such as surface tension and surface shear and of surface processes such as momentum heat and mass transfer at the interface These equations were then used to establish the similarity groups appropriate to separated flows Two-Phase Flow Cl Kleinstreuer, 2017-11-01 This graduate text provides a unified treatment of the fundamental principles of two phase flow and shows how to apply the principles to a variety of homogeneous mixture as well as separated liquid liquid gas solid liquid solid and gas liquid flow problems which may be steady or transient laminar or turbulent Each chapter contains several sample problems which illustrate the outlined theory and provide approaches to find simplified analytic descriptions of complex two phase flow phenomena This well balanced introductory text will be suitable for advanced seniors and graduate students in mechanical chemical biomedical nuclear environmental and aerospace engineering as well as in applied mathematics and the physical sciences It will be a valuable reference for practicing engineers and scientists A solutions manual is available to qualified Thermo-fluid Dynamic Theory of Two-phase Flow M. Ishii,1975 Multiphase Flow Dynamics 1 Nikolay instructors Ivanov Kolev, 2007-06-04 Multi phase flows are part of our natural environment such as tornadoes typhoons air and water pollution and volcanic activities as well as part of industrial technology such as power plants combustion engines propulsion systems or chemical and biological industry The industrial use of multi phase systems requires analytical and numerical strategies for predicting their behavior In its third extended edition this monograph contains theory methods and practical experience for describing complex transient multi phase processes in arbitrary geometrical configurations providing a systematic presentation of the theory and practice of numerical multi phase fluid dynamics In the present first volume the fundamentals of multiphase dynamics are provided This third edition includes various updates extensions and improvements

Thermal-Hydraulics of Water Cooled Nuclear Reactors Francesco D'Auria, 2017-05-18 Thermal Hydraulics of Water Cooled Nuclear Reactors reviews flow and heat transfer phenomena in nuclear systems and examines the critical contribution of this analysis to nuclear technology development With a strong focus on system thermal hydraulics SYS TH the book provides a detailed yet approachable presentation of current approaches to reactor thermal hydraulic analysis also considering the importance of this discipline for the design and operation of safe and efficient water cooled and moderated reactors Part One presents the background to nuclear thermal hydraulics starting with a historical perspective defining key terms and considering thermal hydraulics requirements in nuclear technology Part Two addresses the principles of thermodynamics and relevant target phenomena in nuclear systems Next the book focuses on nuclear thermal hydraulics modeling covering the key areas of heat transfer and pressure drops then moving on to an introduction to SYS TH and computational fluid dynamics codes The final part of the book reviews the application of thermal hydraulics in nuclear technology with chapters on V V and uncertainty in SYS TH codes the BEPU approach and applications to new reactor design plant lifetime extension and accident analysis This book is a valuable resource for academics graduate students and professionals studying the thermal hydraulic analysis of nuclear power plants and using SYS TH to demonstrate their safety and acceptability Contains a systematic and comprehensive review of current approaches to the thermal hydraulic analysis of water cooled and moderated nuclear reactors Clearly presents the relationship between system level top down analysis and component level phenomenology bottom up analysis Provides a strong focus on nuclear system thermal hydraulic SYS TH codes Presents detailed coverage of the applications of thermal hydraulics to demonstrate the safety and acceptability of Advances in Boiling and Condensation Igor Pioro, 2024-02-28 Advances in Boiling and Condensation nuclear power plants provides a comprehensive overview of boiling and condensation which are two types of convection heat transfer with phase change Written by experts in the field the book includes five chapters that address such topics as nucleate pool boiling and flow boiling heat transfer and hydraulic resistance in fuel bundles of nuclear power reactors boiling heat transfer enhancement with graphene based functional coatings water hammer in two phase systems and heat transfer during Mathematical Modeling of Disperse Two-Phase Flows Christophe Morel, 2015-07-17 This book condensation develops the theoretical foundations of disperse two phase flows which are characterized by the existence of bubbles droplets or solid particles finely dispersed in a carrier fluid which can be a liquid or a gas Chapters clarify many difficult subjects including modeling of the interfacial area concentration Basic knowledge of the subjects treated in this book is essential to practitioners of Computational Fluid Dynamics for two phase flows in a variety of industrial and environmental settings The author provides a complete derivation of the basic equations followed by more advanced subjects like turbulence equations for the two phases continuous and disperse and multi-size particulate flow modeling. As well as theoretical material readers will discover chapters concerned with closure relations and numerical issues Many physical models are presented covering key subjects including heat and mass transfers between phases interfacial forces and fluid particles coalescence and breakup amongst others This book is highly suitable for students in the subject area but may also be a useful reference text for more advanced scientists and engineers Bubble Dynamics and Shock Waves Can F. Delale, 2012-10-08 This volume of the Shock Wave Science and Technology Reference Library is concerned with the interplay between bubble dynamics and shock waves It is divided into four parts containing twelve chapters written by eminent scientists Topics discussed include shock wave emission by laser generated bubbles W Lauterborn A Vogel pulsating bubbles near boundaries DM Leppinen QX Wang IR Blake interaction of shock waves with bubble clouds CD Ohl SW Ohl shock propagation in polydispersed bubbly liquids by model equations K Ando T Colonius CE Brennen T Yano T Kanagawa M Watanabe S Fujikawa and by DNS G Tryggvason S Dabiri shocks in cavitating flows NA Adams SJ Schmidt CF Delale GH Schnerr S Pasinligglu together with applications involving encapsulated bubble dynamics in imaging AA Doinikov A Novell JM Escoffre A Bouakaz shock wave lithotripsy P Zhong sterilization of ships ballast water A Abe H Mimura and bubbly flow model of volcano eruptions VK Kedrinskii K Takayama The book offers a timely reference for graduate students as well as professional scientists and engineers interested in the interaction of shock waves with bubbles and their propagation properties in bubbly liquids with applications in medical and earth sciences Computational Fluid Dynamics 2000 Nobuyuki Satofuka, 2012-12-06 This volume constitutes the Proceedings of the First International Conference on Computational Fluid Dynamics held at the Kyoto Research Park Kyoto Japan on 10 14 July 2000 The conference is the first one at which the International Conference on Numerical Methods in Fluid Dynamics ICNMFD and the International Symposium on Computational Fluid Dynamics ISCFD were merged The purpose of the conference was to bring together scientists mathe maticians and engineers to review and share recent advances in mathematical and computational techniques for modeling fluid dynamics The conference had the following format Each day of the conference except Wednesday July 12 started with a plenary session at which an invited lecture was delivered During the rest of the day there were three sessions in parallel in which oral presentations were made Poster presentations were also made on Monday Tuesday and Thursday afternoons A total of 205 abstracts were submitted from all over the world and were evaluated by five paper selection committees chaired by J J Chattot USA KW Morton UK M Napolitano Italy K Srinivas Austraria and myself Out of 136 papers accepted for oral presentations 17 were withdrawn and out of 46 papers accepted for poster presentation 14 were cancelled **Diameter-Transformed Fluidized Bed** Youhao Xu, Bona Lu, Mingyuan He, Yujie Tian, Wei Wang, 2020-06-05 This book puts forward the concept of the Diameter Transformed Fluidized Bed DTFB a fluidized bed characterized by the coexistence of multiple flow regimes and reaction zones achieved by transforming the bed into several sections of different diameters It reviews fundamental aspects including computational

fluid dynamics simulations and industrial practices in connection with DTFB In particular it highlights an example concerning the development of maximizing iso paraffins MIP reactors for regulating complex fluid catalytic cracking reactions in petroleum refineries The book is a must have for understanding how academic and industrial researchers are now collaborating in order to develop novel catalytic processes Microbubbles Snigdha Khuntia, 2025-03-11 Comprehensive resource exploring the basic principles of microbubbles including modeling and simulation as well as applications across various industrial processes Featuring in depth case studies Microbubbles delves into the science and engineering behind microbubbles their unique properties and the state of the art techniques being utilized to unlock their full potential with insight into their various industrial applications such as in computational fluid dynamics CFD modeling as well as statistical and numerical analyses of lab scale and pilot scale operations Written by a highly qualified author with significant research contributions to the field this comprehensive resource discusses sample topics including Fundamental concepts of mass transfer as well as reaction engineering and process design of microbubble based systems Different types of microbubbles including ozone N2 air and O2 and the scope of microbubble industrial scalability with information on cost and energy estimation Intrinsic concepts of chemical and environmental engineering related to microbubbles and recent developments in the simulation of microbubble systems Latest breakthroughs in microbubble technology encompassing their use in nanotechnology pollution control and treatment and environmental remediation This book is an essential reference on the subject for researchers at the postgraduate PhD and postdoctoral levels along with engineers and chemists working with water and wastewater treatment technology Understanding the basics of mass transfer and solid operations is a prerequisite Fundamentals of Turbulent and Multiphase Combustion Kenneth Kuan-yun Kuo, Ragini Acharya, 2012-04-24 to reading Detailed coverage of advanced combustion topics from the author of Principles of combustion Second Edition Turbulence turbulent combustion and multiphase reacting flows have become major research topics in recent decades due to their application across diverse fields including energy environment propulsion transportation industrial safety and nanotechnology Most of the knowledge accumulated from this research has never been published in book form until now Fundamentals of Turbulent and Multiphase Combustion presents up to date integrated coverage of the fundamentals of turbulence combustion and multiphase phenomena along with useful experimental techniques including non intrusive laser based measurement techniques providing a firm background in both contemporary and classical approaches Beginning with two full chapters on laminar premixed and non premixed flames this book takes a multiphase approach beginning with more common topics and moving on to higher level applications In addition Fundamentals of Turbulent and Multiphase Combustion Addresses seven basic topical areas in combustion and multiphase flows including laminar premixed and non premixed flames theory of turbulence turbulent premixed and non premixed flames and multiphase flows Covers spray atomization and combustion solid propellant combustion homogeneous propellants nitramines reacting boundary layer flows

single energetic particle combustion and granular bed combustion Provides experimental setups and results whenever appropriate Supported with a large number of examples and problems as well as a solutions manual Fundamentals of Turbulent and Multiphase Combustion is an important resource for professional engineers and researchers as well as graduate students in mechanical chemical and aerospace engineering **Encyclopedia of Chemical Processing** Sunggyu Lee, 2006 Supplying nearly 350 expertly written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques this second edition provides gold standard articles on the methods practices products and standards recently influencing the chemical industries New material includes design of key unit operations involved with chemical processes design unit operation and integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment current industry practices and pilot plant design and scale up criteria Solar Thermal Energy Systems Werner Platzer, Robert Stieglitz, 2024 Zusammenfassung This textbook is intended for master's level engineering students in the field of their studies It begins with an analysis of the growing world population s energy demand heat and electricity and its connection to the undeniable climate change necessitating the expansion of climate friendly technologies. The book is divided into two sections The first section Chapters 2 to 7 presents the physical fundamentals of solar thermal energy usage along with the necessary processes methods and models The second section Chapters 8 12 covers the synthesis of the developed fundamentals applied to various functional solar thermal systems It not only provides the logic and methods for transferring the physical fundamentals into an operative technical system but also includes aspects of concept development selection economic evaluation and performance Additionally measurement and control technology are presented underpinned by real projects that have already been successfully implemented **Encyclopedia of Chemical Processing (Online)** Sunggyu Lee, 2005-11-01 This second edition Encyclopedia supplies nearly 350 gold standard articles on the methods practices products and standards influencing the chemical industries It offers expertly written articles on technologies at the forefront of the field to maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques This collecting of information is of vital interest to chemical polymer electrical mechanical and civil engineers as well as chemists and chemical researchers A complete reconceptualization of the classic reference series the Encyclopedia of Chemical Processing and Design whose first volume published in 1976 this resource offers extensive A Z treatment of the subject in five simultaneously published volumes with comprehensive indexing of all five volumes in the back matter of each tome It includes material on the design of key unit operations involved with chemical processes the design unit operation and integration of reactors and separation systems process system peripherals such as pumps valves and controllers analytical techniques and equipment and pilot plant design and scale up criteria This reference contains well researched sections on automation equipment design and simulation reliability and maintenance separations technologies

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