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Takashi Hibiki

Thermo-Fluid Dynamics of Two-Phase Flow

Second Edition

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Thermo-fluid Dynamics of Two-Phase Flow Mamoru Ishii, Takashi Hibiki, 2006-09-28 This book is intended to be an introduction to the theory of thermo fluid dynamics of two phase flow for graduate students scientists and practicing engineers seriously involved in the subject It can be used as a text book at the graduate level courses focused on the two phase flow in Nuclear Engineering Mechanical 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 single 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 modern 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 Two-Phase Flow Mamoru Ishii, Takashi Hibiki, 2011-04-08 Thermo fluid Dynamics of Two Phase Flow Second Edition is focused on the fundamental physics of two phase flow The authors present the detailed theoretical foundation of multi phase flow thermo fluid dynamics as they apply to Nuclear reactor transient and accident analysis Energy systems Power generation systems Chemical reactors and process systems Space propulsion Transport processes This edition features updates on two phase flow formulation and constitutive equations and CFD simulation codes such as FLUENT and CFX new coverage of the lift force model which is of particular significance for those working in the field of computational fluid dynamics new equations and coverage of 1 dimensional drift flux models and a new chapter on porous media formulation

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 instructors

Thermo-fluid Dynamic Theory of Two-phase Flow M. Ishii, 1975

Mathematical Modeling of Disperse Two-Phase Flows Christophe Morel, 2015-07-17 This book 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

Gasdynamic Aspects of Two-Phase Flow Herbert Staedtke, 2006-12-13 Here the author a researcher of outstanding experience in this field summarizes and combines the recent results and findings on advanced two phase flow modeling and numerical methods otherwise dispersed in various journals while also providing explanations for numerical and modeling techniques previously not covered by other books The resulting systematic and comprehensive monograph is unrivalled in its kind serving as a reference for both researchers and engineers working in engineering as well as in environmental science

Multiphase Flow Dynamics 1 Nikolay 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 in all book chapters

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

Fundamentals of Turbulent and Multiphase Combustion Kenneth K. Kuo,Ragini Acharya,2012-07-03 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

Proceedings of the 1st International Conference on Numerical Modelling in Engineering Magd Abdel Wahab,2018-08-28 This book gathers outstanding papers on numerical modeling in Mechanical Engineering Volume 2 as part of the proceedings of the 1st International Conference on Numerical Modeling in Engineering NME 2018 which was held in Ghent Belgium The overall objective of the conference was to bring together international scientists and engineers in academia and industry from fields related to advanced numerical techniques such as the finite element method FEM boundary element method BEM isogeometric analysis IGA etc and their applications to a wide range of engineering disciplines This book addresses various industrial engineering applications of numerical simulations to Mechanical and Materials Engineering including Aerospace applications Acoustic analysis Biomechanical applications Contact problems and wear Heat transfer analysis Vibration and

dynamics Transient analysis Nonlinear analysis Composite materials Polymers Metal alloys Fracture mechanics Fatigue of materials Creep behavior Phase transformation and Crystal plasticity Topics in Applied Analysis and Optimisation Michael Hintermüller, José Francisco Rodrigues, 2019-11-27 This volume comprises selected revised papers from the Joint CIM WIAS Workshop TAAO 2017 held in Lisbon Portugal in December 2017 The workshop brought together experts from research groups at the Weierstrass Institute in Berlin and mathematics centres in Portugal to present and discuss current scientific topics and to promote existing and future collaborations The papers include the following topics PDEs with applications to material sciences thermodynamics and laser dynamics scientific computing nonlinear optimization and stochastic analysis Computational Science - ICCS 2022 Derek Groen, Clélia de Mulatier, Maciej Paszynski, Valeria V. Krzhizhanovskaya, Jack J. Dongarra, Peter M. A. Sloot, 2022-06-21 The four volume set LNCS 13350 13351 13352 and 13353 constitutes the proceedings of the 22nd International Conference on Computational Science ICCS 2022 held in London UK in June 2022 The total of 175 full papers and 78 short papers presented in this book set were carefully reviewed and selected from 474 submissions 169 full and 36 short papers were accepted to the main track 120 full and 42 short papers were accepted to the workshops thematic tracks The conference was held in a hybrid format 27th European Symposium on Computer Aided Process Engineering, 2017-09-21 27th European Symposium on Computer Aided Process Engineering Volume 40 contains the papers presented at the 27th European Society of Computer Aided Process Engineering ESCAPE event held in Barcelona October 1 5 2017 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 27th European Society of Computer Aided Process Engineering ESCAPE event **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 *Proceedings of The 20th Pacific Basin Nuclear Conference* Hong Jiang, 2017-01-10 This is the first in a series of three proceedings of the 20th Pacific Basin Nuclear Conference PBNC This volume covers the topics of Safety and Security Public Acceptance and Nuclear Education as well as Economics and Reducing Cost As one in the most important and influential conference series of nuclear science and technology the 20th PBNC was held in Beijing and the theme of this meeting was Nuclear Powering the Development of the Pacific Basin and the World It brought together outstanding nuclear scientist and technical experts senior industry

executives senior government officials and international energy organization leaders from all across the world The book is not only a good summary of the new developments in the field but also a useful guideline for the researchers engineers and graduate students

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

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

nuclear power plants Advances in Hydroinformatics—SimHydro 2023 Volume 2 Philippe Gourbesville, Guy Caignaert, 2024-09-17 This book includes a collection of extended papers based on presentations given during the SimHydro 2023 conference held in EDF Lab Chatou France with the support of Soci t  Hydrotechnique de France SHF the Association Fran aise de M canique AFM the Environmental and Water Resources Institute EWRI and the International Association for Hydro Environment Engineering and Research IAHR SimHydro conferences since 2010 have created a regular forum where major actors of the hydroinformatics domain and stakeholders meet share and debate about needs innovations and implementations of models and their inputs for decision making For this new edition the general theme of the conference is focused on New modelling paradigms for water issues The papers address some of the key challenges faced by the water modelling community regarding processes to simulate such as water services extreme events floods droughts etc and hydrological cycle at catchment scale and to assess the added value of emerging concepts and methods such as Artificial Intelligence AI and Digital Twins that are gaining interests It addresses the interests of practitioners stakeholders researchers and engineers active in this field This book represents Volume 2 of a two volume book series

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