

Heat and Mass Transfer

Shigeo Fujikawa
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Vapor-Liquid Interfaces, Bubbles and Droplets

Fundamentals and Applications

 Springer

Vapor Liquid Interfaces Bubbles And Droplets Fundamentals And Applications Heat And Mass Transfer

Marcel A. Müller



Vapor Liquid Interfaces Bubbles And Droplets Fundamentals And Applications Heat And Mass Transfer:

Vapor-Liquid Interfaces, Bubbles and Droplets Shigeo Fujikawa, Takeru Yano, Masao Watanabe, 2011-04-16

Physically correct boundary conditions on vapor liquid interfaces are essential in order to make an analysis of flows of a liquid including bubbles or of a gas including droplets Suitable boundary conditions do not exist at the present time This book is concerned with the kinetic boundary condition for both the plane and curved vapor liquid interfaces and the fluid dynamics boundary condition for Navier Stokes fluid dynamics equations The kinetic boundary condition is formulated on the basis of molecular dynamics simulations and the fluid dynamics boundary condition is derived by a perturbation analysis of Gaussian BGK Boltzmann equation applicable to polyatomic gases The fluid dynamics boundary condition is applied to actual flow problems of bubbles in a liquid and droplets in a gas

Encyclopedia Of Two-phase Heat Transfer And Flow I:

Fundamentals And Methods (A 4-volume Set) John R Thome, 2015-08-14 The aim of the two set series is to present a very detailed and up to date reference for researchers and practicing engineers in the fields of mechanical refrigeration chemical nuclear and electronics engineering on the important topic of two phase heat transfer and two phase flow The scope of the first set of 4 volumes presents the fundamentals of the two phase flows and heat transfer mechanisms and describes in detail the most important prediction methods while the scope of the second set of 4 volumes presents numerous special topics and numerous applications also including numerical simulation methods Practicing engineers will find extensive coverage to applications involving multi microchannel evaporator cold plates for electronics cooling boiling on enhanced tubes and tube bundles flow pattern based methods for predicting boiling and condensation inside horizontal tubes pressure drop methods for singularities U bends and contractions boiling in multiport tubes and boiling and condensation in plate heat exchangers All of these chapters include the latest methods for predicting not only local heat transfer coefficients but also pressure drops Professors and students will find this Encyclopedia of Two Phase Heat Transfer and Flow particularly exciting as it contains authored books and thorough state of the art reviews on many basic and special topics such as numerical modeling of two phase heat transfer and adiabatic bubbly and slug flows the unified annular flow boiling model flow pattern maps condensation and boiling theories new emerging topics etc

Fundamentals of Multiphase Heat Transfer and Flow Amir

Faghri, Yuwen Zhang, 2019-09-13 This textbook presents a modern treatment of fundamentals of heat and mass transfer in the context of all types of multiphase flows with possibility of phase changes among solid liquid and vapor It serves equally as a textbook for undergraduate senior and graduate students in a wide variety of engineering disciplines including mechanical engineering chemical engineering material science and engineering nuclear engineering biomedical engineering and environmental engineering Multiphase Heat Transfer and Flow can also be used to teach contemporary and novel applications of heat and mass transfer Concepts are reinforced with numerous examples and end of chapter problems A solutions manual and PowerPoint presentation are available to instructors While the book is designed for students it is also

very useful for practicing engineers working in technical areas related to both macro and micro scale systems that emphasize multiphase multicomponent and non conventional geometries with coupled heat and mass transfer and phase change with the possibility of full numerical simulation Microinterfacial Mass Transfer Intensification Zhibing Zhang,2025-06-27

Microinterfacial Mass Transfer Intensification provides new and updated technical information along with basic theory The book covers several representative industrial application cases and can be used as a reference for scholars engineers students and technicians in oil refining petrochemical fine chemical coal chemical chemical and biochemical pharmacy food processing waste gas and wastewater treatment and other pan chemical manufacturing Provides new concepts theories methods technologies mathematical models and applications in microinterfacial mass transfer intensification technology Brings students to cutting edge level in engineering and science research on complex interfacial phenomena Provides professionals working in advanced materials manufacturing and process intensification R D with a fundamental basis for understanding current cutting edge research topics Written by a top international researcher in the field Flow boiling and condensation in microscale channels Fabio Toshio Kanizawa,Gherhardt Ribatski,2021-04-30 This book covers aspects of multiphase flow and heat transfer during phase change processes focusing on boiling and condensation in microscale channels The authors present up to date predictive methods for flow pattern void fraction pressure drop heat transfer coefficient and critical heat flux pointing out the range of operational conditions that each method is valid The first four chapters are dedicated on the motivation to study multiphase flow and heat transfer during phase change process and the three last chapters are focused on the analysis of heat transfer process during boiling and condensation During the description of the models and predictive methods the trends are discussed and compared with experimental findings

Boiling Phenomena Sjoerd van Stralen,Robert Cole,1979 *Microgravity Research in Support of Technologies for the Human Exploration and Development of Space and Planetary Bodies* National Research Council,Commission on Physical Sciences, Mathematics, and Applications,Space Studies Board,Committee on Microgravity Research,2000-08-03 The frontier represented by the near solar system confronts humanity with intriguing challenges and opportunities With the inception of the Human Exploration and Development of Space HEDS enterprise in 1995 NASA has acknowledged the opportunities and has accepted the very significant challenges Microgravity Research in Support of Technologies for the Human Exploration and Development of Space and Planetary Bodies was commissioned by NASA to assist it in coordinating the scientific information relevant to anticipating identifying and solving the technical problems that must be addressed throughout the HEDS program over the coming decades This report assesses scientific and related technological issues facing NASA s Human Exploration and Development of Space endeavor looking specifically at mission enabling and enhancing technologies which for development require an improved understanding of fluid and material behavior in a reduced gravity environment

Applied mechanics reviews ,1948 *Handbook of Environmental Fluid Dynamics, Volume One* Harindra Joseph

Fernando,2012-12-12 With major implications for applied physics engineering and the natural and social sciences the rapidly growing area of environmental fluid dynamics focuses on the interactions of human activities environment and fluid motion A landmark for the field the two volume Handbook of Environmental Fluid Dynamics presents the basic principles funda

Heat and Mass Transfer in Fires and Combustion Systems American Society of Mechanical Engineers. Winter Annual Meeting,1990 **Transport Phenomena in Multiphase Systems** Amir Faghri,Yuwen Zhang,2006-05-25

Engineering students in a wide variety of engineering disciplines from mechanical and chemical to biomedical and materials engineering must master the principles of transport phenomena as an essential tool in analyzing and designing any system or systems wherein momentum heat and mass are transferred This textbook was developed to address that need with a clear presentation of the fundamentals ample problem sets to reinforce that knowledge and tangible examples of how this knowledge is put to use in engineering design Professional engineers too will find this book invaluable as reference for everything from heat exchanger design to chemical processing system design and more Develops an understanding of the thermal and physical behavior of multiphase systems with phase change including microscale and porosity for practical applications in heat transfer bioengineering materials science nuclear engineering environmental engineering process engineering biotechnology and nanotechnology Brings all three forms of phase change i e liquid vapor solid liquid and solid vapor into one volume and describes them from one perspective in the context of fundamental treatment Presents the generalized integral and differential transport phenomena equations for multi component multiphase systems in local instance as well as averaging formulations The molecular approach is also discussed with the connection between microscopic and molecular approaches Presents basic principles of analyzing transport phenomena in multiphase systems with emphasis on melting solidification sublimation vapor deposition condensation evaporation boiling and two phase flow heat transfer at the micro and macro levels Solid liquid vapor interfacial phenomena including the concepts of surface tension wetting phenomena disjoining pressure contact angle thin films and capillary phenomena including interfacial balances for mass species momentum and energy for multi component and multiphase interfaces are discussed Ample examples and end of chapter problems with Solutions Manual and PowerPoint presentation available to the instructors

Proceedings of the Second International Colloquium on Drops and Bubbles, Monterey, California, November 19-21, 1981,1982 **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 **Metals Abstracts** ,1977 Naval Engineers Journal ,1981 Scientific and Technical Aerospace Reports ,1990 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Fundamentals of Turbulent and Multiphase Combustion* Kenneth Kuan-yun Kuo,Ragini Acharya,2012-04-24 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 *Drops and Bubbles in Contact with Solid Surfaces* Michele Ferrari,Libero Liggieri,Reinhard Miller,2016-04-19 The third volume in a series dedicated to colloids and interfaces Drops and Bubbles in Contact with Solid Surfaces presents an up to date overview of the fundamentals and applications of drops and bubbles and their interaction with solid surfaces The chapters cover the theoretical and experimental aspects of wetting and wettability liquid solid **Theoretical Chemical Engineering Abstracts** ,1986 **Multiphase Particulate Systems in Turbulent Flows** Wioletta Podgórska,2019-09-17 Multiphase Particulate Systems in Turbulent Flows Fluid Liquid and Solid Liquid Liquid Dispersions provides methods necessary to analyze complex particulate systems and related phenomena including physical chemical and mathematical description of fundamental processes influencing crystal size and shape suspension rheology interfacial area of drops and bubbles in

extractors and bubble columns Examples of mathematical model formulation for different processes taking place in such systems is shown Discussing connections between turbulent mixing mechanisms and precipitation it discusses influence of fine scale structure of turbulence including its intermittent character on breakage of drops bubbles cells plant cell aggregates An important aspect of the mathematical modeling presented in the book is multi fractal taking into account the influence of internal intermittency on different phenomena Key Features Provides detailed descriptions of dispersion processes in turbulent flow interactions between dispersed entities and continuous phase in a single volume Includes simulation models and validation experiments for liquid liquid gas liquid and solid liquid dispersions in turbulent flows Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory Explains how to solve different forms of population balance equations Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity with exercises and case studies

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Introduction

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