



Twophase Flows

Sadik Kakaç, M. Ishil



Twophase Flows:

Two-Phase Flow in Complex Systems Salomon Levy, 1999-08-02 The first comprehensive real world look at two phase flow systems from one of the world's leading authorities on the subject From his early works in the area of heat transfer research on boundary layer flows and two phase flows to his role as one of the lead consultants following the Three Mile Island accident internationally renowned engineer Salomon Levy has achieved an ideal balance of theory and practice in his engineering career In Two Phase Flow in Complex Systems Dr Levy's newest book he draws on this breadth of experience to examine these systems in the real world Two Phase Flow in Complex Systems offers a unique look at two phase flow phenomena primarily gas and liquid in a variety of systems from water reactors to the global climate system Focusing on the interaction and simultaneous behavior of all the components in a system the book's approach departs significantly from conventional texts which emphasize modeling of separate phenomena The book begins with the formulation of an integrated program of experiments and analytical tools and describes experimental aspects specifically the scaling of test facilities essential to representing the critical elements of the behavior of complex systems Subsequent chapters Discuss system computer codes for predicting system behavior during transients and accidents Examine flow pattern maps and flow pattern models Describe typical limiting phenomena known to impact the safety and cost of complex systems including countercurrent limiting conditions and critical or choking flow The book also illustrates how the analysis used in understanding the dynamics of a nuclear power system can be applied to the entire global climate system including the phenomenon of global warming

Annular Two-Phase Flow Geoffrey Hewitt, 2013-10-22 Annular Two Phase Flow presents the wide range of industrial applications of annular two phase flow regimes This book discusses the fluid dynamics and heat transfer aspects of the flow pattern Organized into 12 chapters this book begins with an overview of the classification of the various types of interface distribution observed in practice This text then examines the various regimes of two phase flow with emphasis on the regions of occurrence of the annular flow regime Other chapters consider the single momentum and energy balances which illustrate the differences and analogies between single and two phase flows This book discusses as well the simple modes for annular flow with consideration to the calculation of the profile of shear stress in the liquid film The final chapter deals with the techniques that are developed for the measurement of flow pattern entrainment and film thickness This book is a valuable resource for chemical engineers

Two Phase Flows in Chemical Engineering David Azbel, 1981-08-31 The behaviour of bubbles is a unifying theme of this book From an explanation of the fundamentals of bubbles formation at a single orifice Dr Azbel goes on to set up equations for bubble motion bubble size bubble size distribution and pressure drop across a perforated plate

Particulate Two-phase Flow M. C. Roco, 1993 This book is a collection of 28 contributions on basic phenomena and advanced methods of investigation for particulate two phase flow Written by leading scientists in the field this book covers new measurement methods experimental results on particulate two

phase flow microstructure at low and large Reynolds numbers micromechanical probabilistic and numerical simulations as well as production of ultrafine particles via aerosols and colloids for materials with controlled microstructure Each chapter is focused on the qualitative progress made in the field in the last several years and has an extensive review section and original results This unique volume assembles information previously found only in journals and specialized publications It is an invaluable reference for researchers and engineers from academia and industry

Two-Phase Flow Cl

Kleinstreuer,2003-05-23 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

Dynamics of Two-phase Flows

Owen C. Jones,Itaru Michiyoshi,1992-01-01 Proceedings of the Japan US seminar on Two Phase Flow Dynamics held in Japan 1988 Papers are grouped into five categories fundamental equations and closure laws flow regime modeling and dynamics phase separation and distribution phenomena wave and shock phenomena and critical flows and forced convective and post dryout heat transfer Four pages of color plates No index Annotation c by Book News Inc Portland Or

One-Dimensional Two-Phase Flow

Graham B. Wallis,2020-12-16 The first elementary general text on two phase flow suitable for graduate students in engineering this widely used monograph has been newly updated by author Graham B Wallis The two part treatment focuses on analytical techniques and practical applications Praised by the Journal of Fluid Mechanics for its most useful compilation of experimental results the text features much of the author s own work

Thermo-Fluid Dynamics of Two-Phase Flow

Mamoru Ishii,Takashi Hibiki,2010-11-10 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

Two-phase Flow in Pipelines and Heat Exchangers

Duncan Chisholm,1983 Advances in Two-Phase Flow and Heat Transfer Sadik Kakaç,M. Ishil,2012-12-06 Over the past two decades two phase flow and heat transfer problems associated with two phase phenomena have been a challenge to many

investigators Two phase flow applications are found in a wide range of engineering systems such as nuclear and conventional power plants evaporators of refrigeration systems and a wide variety of evaporative and condensive heat exchangers in the chemical industry This publication is based on the invited lectures presented at the NATO Advanced Research Workshop on the Advances in Two Phase Flow and Heat Transfer The Workshop was attended by more than 50 leading scientists and practicing engineers who work actively on two phase flow and heat transfer research and applications in different sectors academia government industry of member countries of NATO Some scientific leaders and experts on the subject matter from the non NATO countries were also invited They convened to discuss the state of the art in two phase flow and heat transfer and formulated recommendations for future research directions To achieve these goals invited key papers and a limited number of contributions were presented and discussed The specific aspects of the subject were treated in depth in the panel sessions and the unresolved problems identified Suitable as a practical reference these volumes incorporate a systematic approach to two phase flow analysis *Advances in Two-Phase Flow and Heat Transfer* Sadik Kakaç, M. Ishii, 2012-12-06

Over the past two decades two phase flow and heat transfer problems associated with two phase phenomena have been a challenge to many investigators Two phase flow applications are found in a wide range of engineering systems such as nuclear and conventional power plants evaporators of refrigeration systems and a wide variety of evaporative and condensive heat exchangers in the chemical industry This publication is based on the invited lectures presented at the NATO Advanced Research Workshop on the Advances in Two Phase Flow and Heat Transfer The Workshop was attended by more than 50 leading scientists and practicing engineers who work actively on two phase flow and heat transfer research and applications in different sectors academia government industry of member countries of NATO Some scientific leaders and experts on the subject matter from the non NATO countries were also invited They convened to discuss the state of the art in two phase flow and heat transfer and formulated recommendations for future research directions To achieve these goals invited key papers and a limited number of contributions were presented and discussed The specific aspects of the subject were treated in depth in the panel sessions and the unresolved problems identified Suitable as a practical reference these volumes incorporate a systematic approach to two phase flow analysis Modelling and Experimentation in Two-Phase Flow Volfango Bertola, 2014-05-04 This is an up to date review of recent advances in the study of two phase flows with focus on gas liquid flows liquid liquid flows and particle transport in turbulent flows The book is divided into several chapters which after introducing basic concepts lead the reader through a more complex treatment of the subjects The reader will find an extensive review of both the older and the more recent literature with abundance of formulas correlations graphs and tables A comprehensive though non exhaustive list of bibliographic references is provided at the end of each chapter The volume is especially indicated for researchers who would like to carry out experimental theoretical or computational work on two phase flows as well as for professionals who wish to learn more about this topic **Computational Methods For Two-phase**

Flow And Particle Transport (With Cd-rom) Wen Ho Lee,2013-03-22 This book describes mathematical formulations and computational methods for solving two phase flow problems with a computer code that calculates thermal hydraulic problems related to light water and fast breeder reactors The physical model also handles the particle and gas flow problems that arise from coal gasification and fluidized beds The second part of this book deals with the computational methods for particle transport

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

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

Flow Patterns of Two-phase Flow John H. Vohr,1960

Two-Phase Flows Shih-i Pai,2013-07-02

Gasdynamic Aspects of Two-Phase Flow Herbert Staedtke,2006-10-06 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

Two-Phase Flows Shih-i Pai, Shiyi Bai, 1977

Matter may be divided into four phases or states solid liquid gas and plasma ionized gas The term fluid has been used as a general name for the last three states liquid gas and plasma because they may be deformed without applying any force provided that the change of shape occurs very slowly Furthermore when a large number of small solid particles flow in a fluid if the velocity of the fluid is sufficiently high the behavior of such solids is similar to ordinary fluid We may consider these solid particles as pseudofluid Under proper conditions we may treat fluid flow problems for solid pseudofluid liquid gas and or plasma In ordinary fluid mechanics we treat the flow problems of a fluid which is in one state only i e liquid gas or plasma and the solids in this fluid medium are assumed to be rigid bodies which may be considered as given boundary conditions of the flow problems

Two Phase Flows and Waves Daniel D. Joseph, David G. Schaeffer, 2012-12-06

This IMA Volume in Mathematics and its Applications TWO PHASE FLOWS AND WAVES is based on the proceedings of a workshop which was an integral part of the 1988-89 IMA program on NONLINEAR WAVES The workshop focussed on the development of waves in flowing composites We thank the Coordinating Committee James Glimm Daniel Joseph Barbara Keyfitz Andrew Majda Alan Newell Peter Olver David Sattinger and David Schaeffer for planning and implementing the stimulating year long program We especially thank the Workshop Organizers Daniel D Joseph and David G Schaeffer for their efforts in bringing together many of the major figures in those research fields in which modelling of granular flows and suspensions is used Avner Friedman Willard Miller Jr

PREFACE This Workshop held from January 3-10 1989 at IMA focused on the properties of materials which consist of many small solid particles or grains Let us distinguish the terms granular material and suspension In the former the material consists exclusively of solid particles interacting through direct contact with one another either sustained frictional contacts in the case of slow shearing or collisions in the case of rapid shearing In suspensions also called two phase flow the grains interact with one another primarily through the influence of a viscous fluid which occupies the interstitial space and participates in the flow As shown by the lecture of I Vardoulakis not included in this volume the distinction between these two idealized cases is not always clear

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