

N.I. Kolev

Multiphase Flow Dynamics 2

Thermal and Mechanical Interactions

2nd Edition

 Springer

Multiphase Flow Dynamics 3 Thermal Interactions

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including some important scales and flow oscillation characteristics in pipes and rod bundles are presented Then the scales characterizing the dispersed flow systems are presented The description of the turbulence is provided at different level of complexity simple algebraic models for eddy viscosity simple algebraic models based on the Boussinesq hypothesis modification of the boundary layer share due to modification of the bulk turbulence modification of the boundary layer share due to nucleate boiling The role of the following forces on the mathematical description of turbulent flows is discussed the lift force the lubrication force in the wall boundary layer and the dispersion force A pragmatic generalization of the $k-\epsilon$ models for continuous velocity field is proposed containing flows in large volumes and flows in porous structures A Methods of how to derive source and sinks terms for multiphase $k-\epsilon$ models is presented A set of 13 single and two phase benchmarks for verification of $k-\epsilon$ models in system computer codes are provided and reproduced with the IVA computer code as an example of the application of the theory This methodology is intended to help other engineers and scientists to introduce this technology step by step in their own engineering practice In many practical application gases are solved in liquids under given conditions released under other conditions and therefore affecting technical processes for good or for bad Useful information on the solubility of oxygen nitrogen hydrogen and carbon dioxide in water under large interval of pressures and temperatures is collected and appropriate mathematical approximation functions are provided In addition methods for the computation of the diffusion coefficients are described With this information solution and dissolution dynamics in multiphase fluid flows can be analyzed For this purpose the non equilibrium absorption and release on bubble droplet and film surfaces under different conditions is mathematically described A systematic set of internally consistent state equations for diesel fuel gas and liquid valid in broad range of changing pressure and temperature is provided This new second edition includes various updates extensions improvements and corrections

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Kolev, 2002-08-07 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

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Multiphase Flow Dynamics 5 Nikolay Ivanov Kolev, 2011-10-18 The present Volume 5 of the successful book package Multiphase Flow Dynamics is devoted to nuclear thermal hydraulics which is a substantial part of nuclear reactor safety It provides knowledge and mathematical tools for adequate description of the process of transferring the fission heat released in materials due to nuclear reactions into its environment It step by step introduces into the heat release inside the fuel temperature fields in the fuels the simple boiling flow in a pipe described using ideas of different complexity like equilibrium non equilibrium homogeneity non homogeneity Then the simple three fluid boiling flow in a pipe is described by gradually involving the mechanisms like entrainment and deposition dynamic fragmentation collisions coalescence turbulence All heat transfer mechanisms are introduced gradually discussing their uncertainty Different techniques are introduced like boundary layer treatments or integral methods Comparisons with experimental data at each step demonstrate the success of the different ideas and models After an introduction of the design of the reactor pressure vessels for pressurized and boiling water reactors the accuracy of the modern methods is demonstrated using large number of experimental data sets for steady and transient flows in heated bundles Starting with single pipe boiling going through boiling in the rod bundles the analysis of complete vessel including the reactor is finally demonstrated Then a powerful method for nonlinear stability analysis of flow boiling and condensation is introduced Models are presented and their accuracies are investigated for describing critical multiphase flow at different level of complexity Basics of designing of steam generators moisture separators and emergency condensers are presented Methods for analyzing a complex pipe network flows with components like pumps valves etc are also presented Methods for analysis of important aspects of the severe accidents like melt water interactions external cooling and cooling of layers of molten nuclear reactor material are presented Valuable sets of thermo physical and transport properties for severe accident analysis are presented for the following materials uranium dioxide zirconium dioxide stainless steel zirconium aluminum aluminum oxide silicon dioxide iron oxide molybdenum boron oxide reactor corium sodium lead bismuth and lead bismuth eutectic alloy The emphasis is on the complete and consistent thermo dynamical sets of analytical approximations appropriate for computational analysis Therefore the book presents a complete coverage of the modern Nuclear Thermal Hydrodynamics This present second edition includes various updates extensions improvements and corrections

Introduction to Multiphase Flow George Yadigaroglu, Geoffrey F. Hewitt, 2017-08-19 This book is the maiden volume in a new series devoted to lectures delivered through the annual seminars

Short Courses on Multiphase Flow held primarily at ETH Zurich continuously since 1984 The Zurich short courses presented by prominent specialists in the various topics covered have attracted a very large number of participants This series presents fully updated and when necessary re grouped lectures in a number of topical volumes The collection aims at giving a condensed critical and up to date view of basic knowledge on multiphase flows in relation to systems and phenomena encountered in industrial applications The present volume covers the background of Multiphase Flows MPF that introduces the reader to the particular nature and complexity of multiphase flows and to basic but critical aspects of MPFs including concepts and the definition of the quantities of interest an introduction to modelling strategies for MPFs flow regimes flow regime maps and transition criteria It also deals with the ubiquitous needs of the multiphase flow modeller namely pressure drop and phase distribution i e the void fraction and the topology of the phases that determines the flow regimes

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