N.I. Kolev

Multiphase Flow Dynamics 2

Thermal and Mechanical Interactions

2nd Edition



Multiphase Flow Dynamics 2 Mechanical Interactions

Raqué, Manuel

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void fraction and the topology of the phases that determines the flow regimes Multiphase Flow Dynamics 1 Nikolay Ivanov Kolev, 2005-12-05 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 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 Advanced Computational Methods and Experiments in Heat Transfer XII B. Sundén, C.A. Brebbia, D. Poljak, 2012-06-27 Containing papers presented at the twelfth in a series of successful international conferences on Advanced Computational Methods and Experiments in Heat Transfer this book covers the latest developments in this important field Heat Transfer plays a major role in emerging application fields such as sustainable development and the reduction of greenhouse gases as well as micro and nano scale structures and bio engineering Typical applications include heat exchangers gas turbine cooling turbulent combustion and fires electronics cooling melting and solidification The nature of heat transfer problems is complex involving many different simultaneously occurring mechanisms e g heat conduction convection turbulence thermal radiation phase change Their complexity makes it imperative that we develop reliable and accurate computational methods to replace or complement expensive and time consuming experimental trial and error work Tremendous advances have been achieved during recent years due to improved numerical solutions of non linear partial differential equations and more powerful computers capable of performing efficient and rapid calculations Nevertheless to further progress it will also be necessary to develop theoretical and predictive computational procedures

both basic and innovative and in applied research Accurate experimental investigations are needed to validate the numerical calculations. The book includes such topics as Heat Transfer in Energy Producing Devices Heat Transfer Enhancement Heat Transfer Problems Natural and Forced Convection and Radiation Multiphase Flow Heat Transfer Modelling and Experiments

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 Safety Analysis for a Fuel Qualification Test with Supercritical Water Raqué, Manuel, 2015-01-07

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