Instabilities in Multiphase Flows

G. Gowesbet ond A. Bertemont

Instabilities In Multiphase Flows

Vladimir B. Khabensky, Vladimir Antonovich Gerliga

Instabilities In Multiphase Flows:

Instabilities in Multiphase Flows A. Berlemont, G. Gouesbet, 2013-06-29 The study of multiphase flows is of utmost interest for engineers who are more or less inevitably faced with them when handling various industrial processes or when dealing with environmental problems such as the dispersion of pollutants It is also a large kingdom assembling many beautiful and weird landscapes in which wandering researchers may be caught by the fascination of precious stones or mysterious insets to deep and obscure caverns Unfortunately it is also an historically disconnected field of research as testified by any textbook contents or by the scientific programs of conferences devoted to multiphase flows For instance is there a relation between fluidization and the study of interfacial waves or between the behaviour of an annular film of liquid and the one of a free surface heated from below The answer is indeed yes To help reveal some unity behind the avatars of multiphase flow behaviours it has been decided to focus the interest on the instability phenomena This book therefore provides the reader with most of the papers which have been accepted and or presented at the international symposium on instabilities in multiphase flows held at the National Institute for Applied Science INS A in Rouen France from the 11 th of May to the 14th of May 1992 The topic of the conference has produced a strong emphasis on instability theory and nonlinear dynamics including chaotic phenomena Multiphase Flow Dynamics 4 Nikolay Ivanov Kolev, 2009-06-12 The nuclear thermal hydraulic is the science providing knowledge about the physical processes occurring during the transferring the fission heat released in structural materials due to nuclear reactions into its environment Along its way to the environment the thermal energy is organized to provide useful mechanical work or useful heat or both Chapter 1 contains introductory information about the heat release in the re tor core the thermal power and thermal power density in the fuel structures and moderator the influence of the thermal power density on the coolant temperature the spatial distribution of the thermal power density Finally some measures are introduced for equalizing of the spatial distribution of the thermal power density Chapter 2 gives the methods for describing of the steady and of the transient temperature fields in the fuel elements Some information is provided regarding influence of the cladding oxidation hydrogen diffusion and of the corrosion pruct deposition on the temperature fields Didactically the nuclear thermal hydraulic needs introductions at different level of complexity by introducing step by step the new features after the previous are clearly presented The followed two Chapters serve this purpose Chapter 3 describes mathematically the simple steady boiling flow in a pipe The steady mass momentum and energy conservation equations are solved at different level of complexity by removing one after the other simplifying assu tions First the idea of mechanical and thermodynamic equilibrium is introduced **Instabilities of Flows: With and** Without Heat Transfer and Chemical Reaction Tapan Sengupta, Thierry Poinsot, 2010-04-03 The articles in the book treat flow instability and transition starting with classical material dealt with in an innovative and rigorous way some newer physical mechanisms explained for the first time and finally with the very complex topic of bombustion and two phase flow

instabilities Hydrodynamic Instabilities and Turbulence Ye Zhou, 2024-05-31 The first comprehensive reference guide to turbulent mixing driven by Rayleigh Taylor Richtmyer Meshkov and Kelvin Helmholtz instabilities **Instability in Flow** Boiling in Microchannels Sujoy Kumar Saha, Gian Piero Celata, 2015-09-14 This Brief addresses the phenomena of instability in flow boiling in microchannels occurring in high heat flux electronic cooling A companion edition in the SpringerBrief Subseries on Thermal Engineering and Applied Science to Critical Heat Flux in Flow Boiling in Microchannels and Heat Transfer and Pressure Drop in Flow Boiling in Microchannels by the same author team this volume is idea for professionals researchers and graduate students concerned with electronic cooling **Investigation of Pressure Drop** and Dynamic Instabilities in Two-phase Flow Thomas Lanz, 2020-12-01 Zweiphasenstr mungen insbesondere Wasser Dampf Str mungen sind f r die Auslegung und den Betrieb thermohydraulischer Systeme nach wie vor von gro em Interesse Diese Arbeit befasst sich mit der Untersuchung des Druckverlustes und dynamischer Instabilit ten hier Dichtewellenoszillationen in Wasser Dampf Str mungen mittels zweier unterschiedlicher Ans tze unter praxisnahen Bedingungen Zum einen wird ein Versuchsstand entwickelt aufgebaut und in Betrieb genommen um mit diesem entsprechende Versuche an einem Verdampferrohr durchzuf hren Zum anderen werden dynamische Simulationen mit einem homogenen mixture flow und einem heterogenen two fluid Str mungsmodell durchgef hrt und miteinander und mit den Messdaten verglichen Die experimentellen und numerischen Ergebnisse lassen sich schlie lich in dimensionslosen Stabilit tskarten zusammenfassen welche die Betriebsgrenzen beschreiben bei denen Dichtewellenoszillationen in thermohydraulisch hnlichen Systemen auftreten k nnen Modeling and Analysis of Multiphase Flow Instabilities Juan Yin, 2004

Salvetti, 2017-03-17 The book provides a detailed approach to the physics fluid dynamics modeling experimentation and numerical simulation of cavitation phenomena with special emphasis on cavitation induced instabilities and their implications on the design and operation of high performance turbopumps and hydraulic turbines. The first part covers the fundamentals nucleation dynamics thermodynamic effects erosion and forms of cavitation attached cavitation cloud cavitation supercavitation vortex cavitation relevant to hydraulic turbomachinery illustrates modern experimental techniques for the characterization visualization and analysis of cavitating flows and introduces the main aspects of the hydrodynamic design and performance of axial inducers centrifugal turbopumps and hydo turbines The second part focuses on the theoretical modeling experimental analysis and practical control of cavitation induced fluid dynamic and rotordynamic instabilities of hydraulic turbomachinery with special emphasis on cavitating turbopumps cavitation surge rotating cavitation higher order cavitation surge rotordynamic whirl forces Finally the third part of the book illustrates the alternative approaches for the simulation of cavitating flows with emphasis on both modeling and numerical aspects Examples of applications to the simulation of unsteady cavitation in internal flows through hydraulic machinery are illustrated in detail **Analysis of Shear Flows** Rameshkumar Bhoraniya, Gayathri Swaminathan, Vinod Narayanan, 2023-03-10 This book presents the fundamentals and advanced research on the global stability analysis of the shear flows The contents investigate the results of global stability analysis for different configurations of internal and external shear flows The topics covered are global stability analysis of converging diverging channel flows axisymmetric boundary layer developed on a circular cylinder cone and inclined flat plate boundary layer and wall jets It further explains the effect of divergence convergence transverse curvature and pressure gradients on the global stability of the different configurations of shear flows The book is a valuable reference for beginners researchers and professionals working in the field of aerodynamics and marine hydrodynamics

Particulate Flows Donald A. Drew, Daniel D. Joseph, Stephen L. Passman, 2012-12-06 This IMA Volume in Mathematics and its Applications PARTICULATE FLOWS PROCESSING AND RHEOLOGY is based on the proceedings of a very successful one week workshop with the same title which was an integral part of the 1995 1996 IMA program on Mathematical Methods in Materials Science We would like to thank Donald A Drew Daniel D Joseph and Stephen L Passman for their excellent work as organizers of the meeting We also take this opportunity to thank the National Science Foun dation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible A vner Friedman Robert Gulliver v PREFACE The workshop on Particulate Flows Processing and Rheology was held January 8 12 1996 at the Institute for Mathematics and its Applications on the University of Minnesota Twin Cities campus as part of the 1995 96 Program on Mathematical Methods in Materials Science There were about forty participants and some lively discussions in spite of the fact that bad weather on the east coast kept some participants from attending and caused scheduling changes throughout the workshop Heterogeneous materials can behave strangely even in simple flow sit uations For example a

mixture of solid particles in a liquid can exhibit behavior that seems solid like or fluid like and attempting to measure the viscosity of such a mixture leads to contradictions and unrepeatable experiments Even so such materials are commonly used in manufacturing and processing Two-Fluid Model Stability, Simulation and Chaos Martín López de Bertodano, William Fullmer, Alejandro Clausse, Victor H. Ransom, 2016-11-09 This book addresses the linear and nonlinear two phase stability of the one dimensional Two Fluid Model TFM material waves and the numerical methods used to solve it The TFM fluid dynamic stability is a problem that remains open since its inception more than forty years ago The difficulty is formidable because it involves the combined challenges of two phase topological structure and turbulence both nonlinear phenomena The one dimensional approach permits the separation of the former from the latter The authors first analyze the kinematic and Kelvin Helmholtz instabilities with the simplified one dimensional Fixed Flux Model FFM They then analyze the density wave instability with the well known Drift Flux Model They demonstrate that the Fixed Flux and Drift Flux assumptions are two complementary TFM simplifications that address two phase local and global linear instabilities separately Furthermore they demonstrate with a well posed FFM and a DFM two cases of nonlinear two phase behavior that are chaotic and Lyapunov stable On the practical side they also assess the regularization of an ill posed one dimensional TFM industrial code Furthermore the one dimensional stability analyses are applied to obtain well posed CFD TFMs that are either **Encyclopedia Of Two-phase Heat** stable RANS or Lyapunov stable URANS with the focus on numerical convergence 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 singularies 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 Encyclopediaa 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 transser and adiabatic bubbly and slug flows the unified annular flow boiling model flow pattern maps condensation and boiling theories new emerging topics etc **Encyclopedia Of** Two-phase Heat Transfer And Flow Iv: Modeling Methodologies, Boiling Of Co2, And Micro-two-phase Cooling (A

4-volume Set) John R Thome, 2018-05-15 Set IV is a new addition to the previous Sets I II and III It contains 23 invited chapters from international specialists on the topics of numerical modeling of pulsating heat pipes and of slug flows with evaporation lattice Boltzmann modeling of pool boiling fundamentals of boiling in microchannels and microfin tubes CO2 and nanofluids testing and modeling of micro two phase cooling systems for electronics and various special topics flow separation in microfluidics two phase sensors wetting of anisotropic surfaces ultra compact heat exchangers etc The invited authors are leading university researchers and well known engineers from leading corporate research laboratories ABB IBM Nokia Bell Labs Numerous must read chapters are also included here for the two phase community Set IV constitutes a must have engineering and research reference together with previous Sets I II and III for thermal engineering researchers and Applied mechanics reviews ,1948 Computational Methods in Multiphase Flow VIII P. Vorobieff, C.A. practitioners Brebbia, J.L. Munoz-Cobo, 2015-04-20 This book presents the latest research in one of the most challenging yet most universally applicable areas of technology Multiphase flows are found in all areas of technology at all length scales and flow regimes involving compressible or incompressible linear or nonlinear fluids. The range of related problems of interest is vast including astrophysics biology geophysics atmospheric process and many areas of engineering The solution of the equations that describe such complex problems often requires a combination of advanced computational and experimental methods For example any models developed must be validated through the application of expensive and difficult experimental techniques Numerous problems in the area thus remain as yet unsolved including modelling nonlinear fluids modelling and tracking interfaces dealing with multiple length scales characterising phase structures and treating drop break up and coalescence The papers contained in the book were presented at the eighth in a well established series of biennial conferences that began in 2001 They represent close interaction between numerical modellers and other researchers working to gradually resolve the many outstanding issues in understanding of multiphase flow The papers in the book cover such topics as Multiphase Flow Simulation Bubble and Drop Dynamics Interface Behaviour Experimental Measurements Energy Applications Compressible Flows Flow in Porous Media Turbulent Flow Image Processing Heat Transfer Atomization Hydromagnetics Plasma Fluidised Beds Cavitation Proceedings of Fluid Mechanics and Fluid Power (FMFP) 2023, Vol. 1 Hardik Kothadia, K. R. Arun, G. Rajesh, Jaywant H. Arakeri, 2025-03-15 This book presents select proceedings of the 10th International and 50th National Conference on Fluid Mechanics and Fluid Power It covers recent research developments in the area of fluid mechanics measurement techniques in fluid flows and computational fluid dynamics The key research topics discussed in this book are fundamental studies in flow instability and transition fluid structure interaction multiphase flows solidification melting cavitation porous media flows bubble and droplet dynamics bio MEMS micro scale experimental techniques flow control devices underwater vehicles bluff body bio fluid mechanics aerodynamics turbomachinery propulsion and power heat transfer and thermal engineering fluids engineering advances in aerospace and defence technology micro

and nano systems engineering acoustics structures and fluids advanced theory and simulations novel experimental techniques in thermofluids engineering and many more The book is a valuable reference for researchers and professionals Offshore Pipelines Boyun Guo, Shanhong Song Ph.D., Ali Ghalambor, Tian Ran interested in thermo fluids engineering Lin PhD, Jacob Chacko, 2005-04-25 Offshore Pipelines covers the full scope of pipeline development from pipeline designing installing and testing to operating It gathers the authors experiences gained through years of designing installing testing and operating submarine pipelines. The aim is to provide engineers and management personnel a guideline to achieve cost effective management in their offshore and deepwater pipeline development and operations. The book is organized into three parts Part I presents design practices used in developing submarine oil and gas pipelines and risers Contents of this part include selection of pipe size coating and insulation Part II provides guidelines for pipeline installations It focuses on controlling bending stresses and pipe stability during laying pipelines Part III deals with problems that occur during pipeline operations Topics covered include pipeline testing and commissioning flow assurance engineering and pigging operations This book is written primarily for new and experienced engineers and management personnel who work on oil and gas pipelines in offshore and deepwater It can also be used as a reference for college students of undergraduate and graduate levels in Ocean Engineering Mechanical Engineering and Petroleum Engineering Pipeline design engineers will learn how to design low cost pipelines allowing long term operability and safety Pipeline operation engineers and management personnel will learn how to operate their pipeline systems in a cost effective manner Deepwater pipelining is a new technology Hydrodynamics: A Primer on Fluid Dynamics and Convective developed in the past ten years and growing quickly Phenomena Pasquale De Marco, Embark on an enthralling odyssey through the captivating realm of fluid dynamics and convective phenomena with Hydrodynamics A Primer on Fluid Dynamics and Convective Phenomena a comprehensive guide to the intricate world of hydrodynamics Written with clarity and precision this volume unveils the fundamental principles that govern the motion of fluids the transfer of heat and the interplay of forces that shape the behavior of liquids and gases Step into the fascinating world of laminar flow where fluids glide smoothly and predictably and delve into the complexities of boundary layers where fluid flow encounters solid surfaces giving rise to a myriad of intriguing phenomena Discover the secrets of multiphase flows where fluids of different densities coexist and interact and unravel the complexities of non Newtonian fluids whose behavior defies the familiar properties of water and air Explore the intriguing realm of compressible flows where fluids respond to changes in pressure and density and uncover the intricate mechanisms of flow instabilities where seemingly innocuous disturbances can trigger dramatic transitions in flow patterns Witness the profound applications of hydrodynamics in diverse fields from engineering and medicine to environmental science and aerospace as this book illuminates the elegance and complexity of nature s liquid embrace With a blend of theoretical rigor and practical insights Hydrodynamics A Primer on Fluid Dynamics and Convective Phenomena provides a comprehensive and accessible resource

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