

Bubble Drop

T Leighton

Bubble and Drop Interfaces Miller,Liggieri,2011-06-09 The book aims at describing the most important experimental methods for characterizing liquid interfaces, such as drop profile analysis, bubble pressure and drop volume tensiometry, capillary pressure technique, and oscillating drops and bubbles.

Drop, Bubble and Particle Dynamics in Complex Fluids Pengtao Yue,Shahriar Afkhami,2020-03-19 The presence of drops, bubbles, and particles affects the behavior and response of complex multiphase fluids. In many applications, these complex fluids have more than one non-Newtonian component, e.g., polymer melts, liquid crystals, and blood plasma. In fact, most fluids exhibit non-Newtonian behaviors, such as yield stress, viscoelasticity, viscoplasticity, shear thinning, or shear thickening, under certain flow conditions. Even in the complex fluids composed of Newtonian components, the coupling between different components and the evolution of internal boundaries often lead to a complex rheology. Thus the dynamics of drops, bubbles, and particles in both Newtonian fluids and non-Newtonian fluids are crucial to the understanding of the macroscopic behavior of complex fluids. This Special Issue aims to gather a wide variety of papers that focus on drop, bubble and particle dynamics in complex fluids. Potential topics include, but are not limited to, drop deformation, rising drops, pair-wise drop interactions, drop migration in channel flows, and the interaction of particles with flow systems such as pastes and slurries, glasses, suspensions, and emulsions. We emphasize numerical simulations, but also welcome experimental and theoretical contributions.

Bubbles, Drops, and Particles Roland Clift,John R. Grace,Martin E. Weber,2005-01-01 This volume offers a critical review of the literature concerning the fluid dynamics, heat transfer, and mass transfer of single bubbles, drops, and particles. Upper-level undergraduates and graduate students, as well as professionals in the fields of engineering, physics, chemistry, geophysics, and applied mathematics, will find it a unified treatment of solid particles, liquid drops, and gas bubbles. Starting with a summary of the fundamental principles and equations governing the behavior of bubbles, drops, and solid particles in Newtonian fluids, the text proceeds to a survey of the parameters used to characterize the shape of rigid particles, and of the factors that determine the shape of bubbles and drops. Succeeding chapters examine the behavior of solid and fluid particles under steady incompressible flow in an extended external phase. The text concludes with an exploration of effects that complicate the relatively simple case of a particle moving steadily through an unbounded fluid.

Bubbles, Drops, and Particles in Non-Newtonian Fluids Raj P. Chhabra,Swati A. Patel,2023-08-31 Provides thorough coverage of the scientific foundations and the latest advances in particle motion in non-Newtonian media. Proveds a new detailed section on the effect of confinement on heat transfer from bluff-bodies Demonstrates how dynamic behavior of single particles can yield useful information for modeling transport processes in complex multiphase flows. Addresses heat transfer in viscoplastic fluids throughout the entire book. Highlights qualitative differences between the response of a Newtonian and non-Newtonian fluids in the complex flows encountered in processing applications

The Motion of Bubbles and Drops in Reduced Gravity R. Shankar Subramanian,R. Balasubramaniam,2001-04-09 This 2001 book provides a thorough review of the motion of bubbles and drops in reduced gravity.

Drops and Bubbles in Interfacial Research D. Mobius,R. Miller,1997-12-09 The shape of drops and bubbles is the centre of interest for many interfacial scientists. This book describes the most recent accomplishments to make use of drops and bubbles in fundamental research and application. After a general introduction into the mechanics of liquid menisci, chapters are dedicated to methods based on drops or bubbles. The chapters about the three main drop experiments provide the theoretical basis, a description of experimental set-ups, specific advantages and disadvantages, correction and calibration problems, experimental examples and their interpretation: pendent and sessile drop, drop volume, and spinning drop technique. The chapter about capillary pressure methods summarises different techniques and gives examples of applications, for instance measurements under microgravity. The maximum bubble pressure technique as a particular capillary pressure method is described, with emphasis on the most recent developments which made this technique applicable to extremely short adsorption times, down to the range of milliseconds and less. Problems connected with aerodynamics and hydrodynamics are discussed and used to show the limits of this widely used standard method. The oscillating bubble technique provides information not available by other techniques, for example about the dilational rheology of adsorption layers and relaxation processes at the interface. The description of rising bubbles in surfactant solutions will contain the hydrodynamic basis as well as the theoretical description of the effect of interfacial layers on the movement of bubbles. Besides the theoretical basis experimental data, such as water purification, flotation processes etc. and the relevance for practical applications will be presented. The chapter about lung alveols demonstrates how important bubbles built by biological membranes are in everyday life. The relevance for medicine and biology as well as model studies is discussed. An important example for the application of drops is metallurgy, where the surface tension of metals and alloys is an important parameter for many applications. The chapters on drop shape analysis by using fibre technique and on force measurements between emulsion droplets are of much practical relevance. Lists of references and symbols are given separately at the end of each chapter while a common subject index is given at the end of the book.

Bubbles, Drops, and Particles in Non-Newtonian Fluids R.P. Chhabra,2006-07-25 Bubbles, Drops, and Particles in Non-Newtonian Fluids, Second Edition continues to provide thorough coverage of the scientific foundations and the latest advances in particle motion in non-Newtonian media. The book demonstrates how dynamic behavior of single particles can yield useful information for modeling transport processes in complex multipha

Particles, Bubbles & Drops Efsthathios Michaelides,2006 The field of multiphase flows has grown by leaps and bounds in the last thirty years and is now regarded as a major discipline. Engineering applications, products and processes with particles, bubbles and drops have consistently grown in number and importance. An increasing number of conferences, scientific fora and archived journals are dedicated to the dissemination of information on flow, heat and mass transfer of fluids with particles, bubbles and drops. Numerical computations and OC thought experimentsOCO have supplemented most physical experiments and a great deal of the product design and testing processes. The literature on computational fluid dynamics with particles, bubbles and drops has grown at an exponential rate, giving rise to new results, theories and better understanding of the transport processes with particles, bubbles and drops. This book captures and summarizes all these advances in a unified, succinct and pedagogical way. Sample Chapter(s). Chapter 1: Introduction (600 KB). Contents: Fundamental Equations and Characteristics of Particles, Bubbles and Drops; Low Reynolds Number Flows; High Reynolds Number Flows; Non-Spherical Particles, Bubbles and Drops; Effects of Rotation, Shear and Boundaries; Effects of Turbulence; Electro-Kinetic, Thermo-Kinetic and Porosity Effects; Effects of Higher Concentration and Collisions; Molecular and Statistical Modeling; Numerical Methods-CFD. Readership: Researchers, practicing engineers and physicists that deal with any aspects of Multiphase Flows. It will also be of interest to academics and researchers in the general fields of mechanical and chemical engineering.

Transport Phenomena with Drops and Bubbles Satwindar S. Sadhal,Portonovo S. Ayyaswamy,Jacob N. Chung,2012-12-06 Fluid flows that transfer heat and mass often involve drops and bubbles, particularly if there are changes of phase in the fluid in the formation or condensation of steam, for example. Such flows pose problems for the chemical and mechanical engineer significantly different from those posed by single-phase flows. This book reviews the current state of the field and will serve as a

reference for researchers, engineers, teachers, and students concerned with transport phenomena. It begins with a review of the basics of fluid flow and a discussion of the shapes and sizes of fluid particles and the factors that determine these. The discussion then turns to flows at low Reynolds numbers, including effects due to phase changes or to large radial inertia. Flows at intermediate and high Reynolds numbers are treated from a numerical perspective, with reference to experimental results. The next chapter considers the effects of solid walls on fluid particles, treating both the statics and dynamics of the particle-wall interaction and the effects of phase changes at a solid wall. This is followed by a discussion of the formation and breakup of drops and bubbles, both with and without phase changes. The last two chapters discuss compound drops and bubbles, primarily in three-phase systems, and special topics, such as transport in an electric field.

Particles, Bubbles and Drops ,

Numerical Simulation of Multiphase Reactors with Continuous Liquid Phase Chao Yang,Zai-Sha Mao,2014-09-04 Numerical simulation of multiphase reactors with continuous liquid phase provides current research and findings in multiphase problems, which will assist researchers and engineers to advance this field. This is an ideal reference book for readers who are interested in design and scale-up of multiphase reactors and crystallizers, and using mathematical model and numerical simulation as tools. Yang and Mao's book focuses on modeling and numerical applications directly in the chemical, petrochemical, and hydrometallurgical industries, rather than theories of multiphase flow. The content will help you to solve reacting flow problems and/or system design/optimization problems. The fundamentals and principles of flow and mass transfer in multiphase reactors with continuous liquid phase are covered, which will aid the reader's understanding of multiphase reaction engineering. Provides practical applications for using multiphase stirred tanks, reactors, and microreactors, with detailed explanation of investigation methods. Presents the most recent research efforts in this highly active field on multiphase reactors and crystallizers. Covers mathematical models, numerical methods and experimental techniques for multiphase flow and mass transfer in reactors and crystallizers.

The Acoustic Bubble T Leighton,2012-12-02 The Acoustic Bubble describes the interaction of acoustic fields with bubbles in liquid. The book consists of five chapters. Chapter 1 provides a basic introduction to acoustics, including some of the more esoteric phenomena that can be seen when high-frequency high-intensity underwater sound is employed. Chapter 2 discusses the nucleation of cavitation and basic fluid dynamics, while Chapter 3 draws together the acoustics and bubble dynamics to discuss the free oscillation of a bubble and acoustic emissions from such activity. The acoustic probes that are often applied to study the behavior of a bubble when an externally-applied acoustic field drives it into oscillation is deliberated in Chapter 4. The last chapter outlines a variety of effects associated with acoustically-induced bubble activity. The bubble detection, sonoluminescence, sonochemistry, and pulse enhancement are also covered. This publication is a good reference for physics and engineering students and researchers intending to acquire knowledge of the acoustic interactions of acoustic fields with bubbles.

Fluid Dynamics of Particles, Drops, and Bubbles ,

Recent Advances in Computational Mechanics and Simulations Sandip Kumar Saha,Mousumi Mukherjee,2020-11-13 This volume presents selected papers from the 7th International Congress on Computational Mechanics and Simulation held at IIT Mandi, India. The papers discuss the development of mathematical models representing physical phenomena and applying modern computing methods and simulations to analyse them. The studies cover recent advances in the fields of nano mechanics and biomechanics, simulations of multiscale and multiphysics problems, developments in solid mechanics and finite element method, advancements in computational fluid dynamics and transport phenomena, and applications of computational mechanics and techniques in emerging areas. The volume will be of interest to researchers and academics from civil engineering, mechanical engineering, aerospace engineering, materials engineering/science, physics, mathematics and other disciplines.

Transport Processes in Bubbles, Drops and Particles Daniel DeKee,2002-06-14 Describes the advances in the transport phenomena of particles, drops and bubbles in complex fluids. This book contains contributions from experts in areas such as particle deposition in membranes, flow of granular mixtures, food suspensions, foams, electro kinetic and thermo capillary driven flows, and two-phase flows.

Bacterial Adhesion M. Fletcher,D.C. Savage,2013-11-11 Study of the phenomena of bacterial adhesion to surfaces has accelerated considerably over the past 10 to 15 years. During this period, microbiologists have become increasingly aware that attachment to a substratum influences considerably the activities and structures of microbial cells. Moreover, in many cases attached communities of cells have important effects on their substratum and the surrounding environment. Such phenomena are now known to be important in plant and animal hosts, water and soil ecosystems, and man-made structures and industrial processes. Much work on microbial adhesion in the early 1970s was descriptive. Those studies were important for detecting and describing the phenomena of bacterial adhesion to substrata in various environments; the findings have been presented in numerous recently published, excellent books and reviews. In some studies, attempts were made to elucidate some fundamental principles controlling adhesion processes in different environments containing a variety of microorganisms. Common threads have been observed occasionally in different studies. Taken as a whole, however, the information has revealed that many disparate factors are involved in adhesion processes. Whether a particular microorganism can adhere to a certain substratum depends on the properties of the microbial strain itself and on characteristics of the substratum and of the environment.

NASA Technical Memorandum United States. National Aeronautics and Space Administration,1992

Aerated Foods Ganesan Narsimhan,2019-06-07 Explore the roles aeration can play in the production, stability, and consumer experience of foods Aeration is an increasingly prevalent part of food manufacturing, bringing a light texture, enhanced appearance, and richer flavors to a wide range of products. Essential to the creation of everything from ice cream and popcorn to cheese and beer, the incorporation of fine air bubbles into the foods we consume can also boost satiety and thus reduce caloric intake. Aerated Foods examines this process in detail, offering a complete overview of all aspects of aeration. With sections that address the effects of aeration upon product structure and stability, this informative book explains how food formulation influences the shelf life, texture, and overall experience of different foods. Chapters also outline the various methods by which aeration can be achieved, breaking down the science and technology involved in the incorporation of air Details the mechanisms and overall results of aeration as a method of food processing Covers innovative and experimental aeration techniques Looks at the role of aeration in baking Aerated Foods provides food scientists, researchers, and product developers with an invaluable guide to this multifaceted and fast-growing method of food production.

Influence of Deformation on (drop/bubble)/solid Equilibrium Surface Forces Divesh Bhatt,2000

Computational Methods for Complex Liquid-Fluid Interfaces Mohammad Taeibi Rahni,Mohsen Karbaschi,Reinhard Miller,2015-11-11 Computational Methods for Complex Liquid-Fluid Interfaces highlights key computational challenges involved in the two-way coupling of complex liquid-fluid interfaces. The book covers a variety of cutting-edge experimental and computational techniques ranging from macro- to meso- and microscale approaches (including pivotal applications). As examples, the text: defines the most important interfacial quantities and their experimental investigations, providing theoretical background and detailed solutions, describes vital techniques used in interfacial flow problems, such as modern meshless numerical methods and conventional computational fluid dynamics methods, and discusses the technicalities of correctly using the computational methods developed for interfacial flows, as well as the simulation of interesting interfacial flow physics. Edited and authored by

leading scientists and researchers, Computational Methods for Complex Liquid-Fluid Interfaces offers an authoritative and state-of-the-art overview of computational methodologies and simulation techniques for the quantification of interfacial quantities.

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