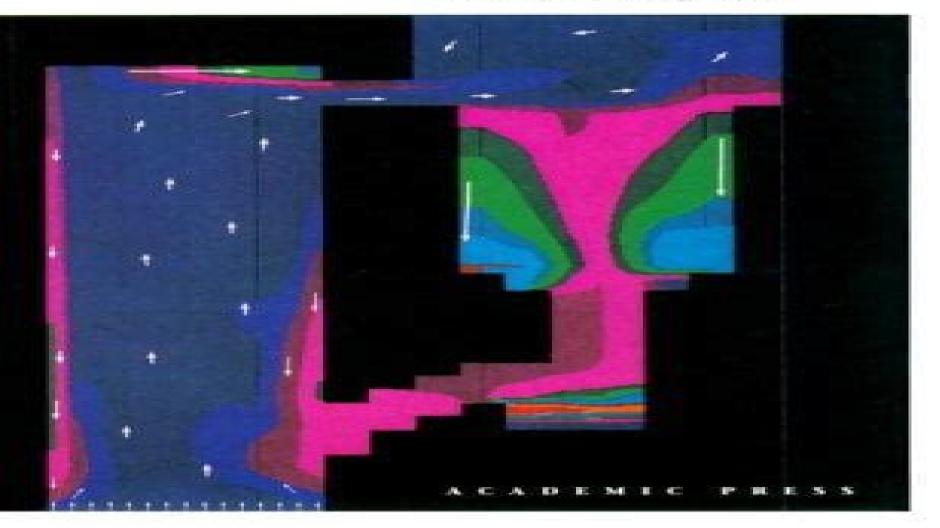
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# Multiphase Flow and Fluidization

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Multiphase Flow and Fluidization Dimitri Gidaspow, 1994-01-18 It clarifies many physical concepts such as particulate viscosity and solids pressure and introduces the new dependent variable the volume fraction of the dispersed phase Exercises are provided for further study and lead into applications not covered in the text itself Theory of Dispersed Multiphase Flow Richard E. Meyer, 2014-05-10 Mathematics Research Center Symposium Theory of Dispersed Multiphase Flow covers the proceedings of an advanced seminar conducted by the Mathematics Research Center of the University of Wisconsin Madison on May 26 28 1982 The book focuses on solutions of long chain polymers in liquids magnetic control of particle suspensions in fluid streams aerosols dense granular flows and ice crystals or vapor bubbles dispersed in river waters The selection first elaborates on the effects of interactions between particles on the rheology of dispersions rheology of concentrated macromolecular solutions and a survey of results in the mathematical theory of fluidization Discussions focus on Rayleigh Taylor instabilities linear instability theory steady solutions general theory for polymer solutions and suspensions electrostatically concentrated suspensions and pair interaction theories. The text then examines instability in settling of suspensions due to Brownian effects enhanced sedimentation in vessels having inclined walls and simple kinetic theory of Brownian diffusion in vapors and aerosols The text takes a look at the simulation of aerosol dynamics continuum modeling of two phase flows multiphase mixture theory for fluid particle flows and mixture theory for turbulent diffusion of heavy particles Topics include plane gravity flow decomposition and averaging isothermal flows of dilute suspensions kinematics and the equations of motion diffusional regularization kinematic waves and aerosol formation and growth in uniform systems The selection is a valuable source of data for researchers interested in the theory of dispersed multiphase flow Phenomena in Multiphase Systems Hamid Arastoopour, Dimitri Gidaspow, Robert W. Lyczkowski, 2022 This volume fills the need for a textbook presenting basic governing and constitutive equations followed by several engineering problems on multiphase flow and transport that are not provided in current advanced texts monographs or handbooks The unique emphasis of this book is on the sound formulation of the basic equations describing multiphase transport and how they can be used to design processes in selected industrially important fields The clear underlying mathematical and physical bases of the interdisciplinary description of multiphase flow and transport are the main themes along with advances in the kinetic theory for particle flow systems. The book may be used as an upper level undergraduate or graduate textbook as a reference by professionals in the design of processes that deal with a variety of multiphase systems and by practitioners and experts in multiphase science in the area of computational fluid dynamics CFD at U S national laboratories international universities research laboratories and institutions and in the chemical pharmaceutical and petroleum industries Distinct from other books on multiphase flow this volume shows clearly how the basic multiphase equations can be used in the design and scale up of multiphase processes. The authors represent a combination of nearly two centuries of experience and innovative application

of multiphase transport representing hundreds of publications and several books This book serves to encapsulate the essence of their wisdom and insight and Provides a lucid explanation of how the multiphase transport equations arise including multiphase kinetic theory Describes gas liquid and gas solid flows including fluidized bed systems Explains applications to several chemical and energy conversion processes based on fluidized bed systems including blood flow analysis carbon dioxide CO2 capture pharmaceutical production volcanic eruptions polymerization process and wind turbine performance

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