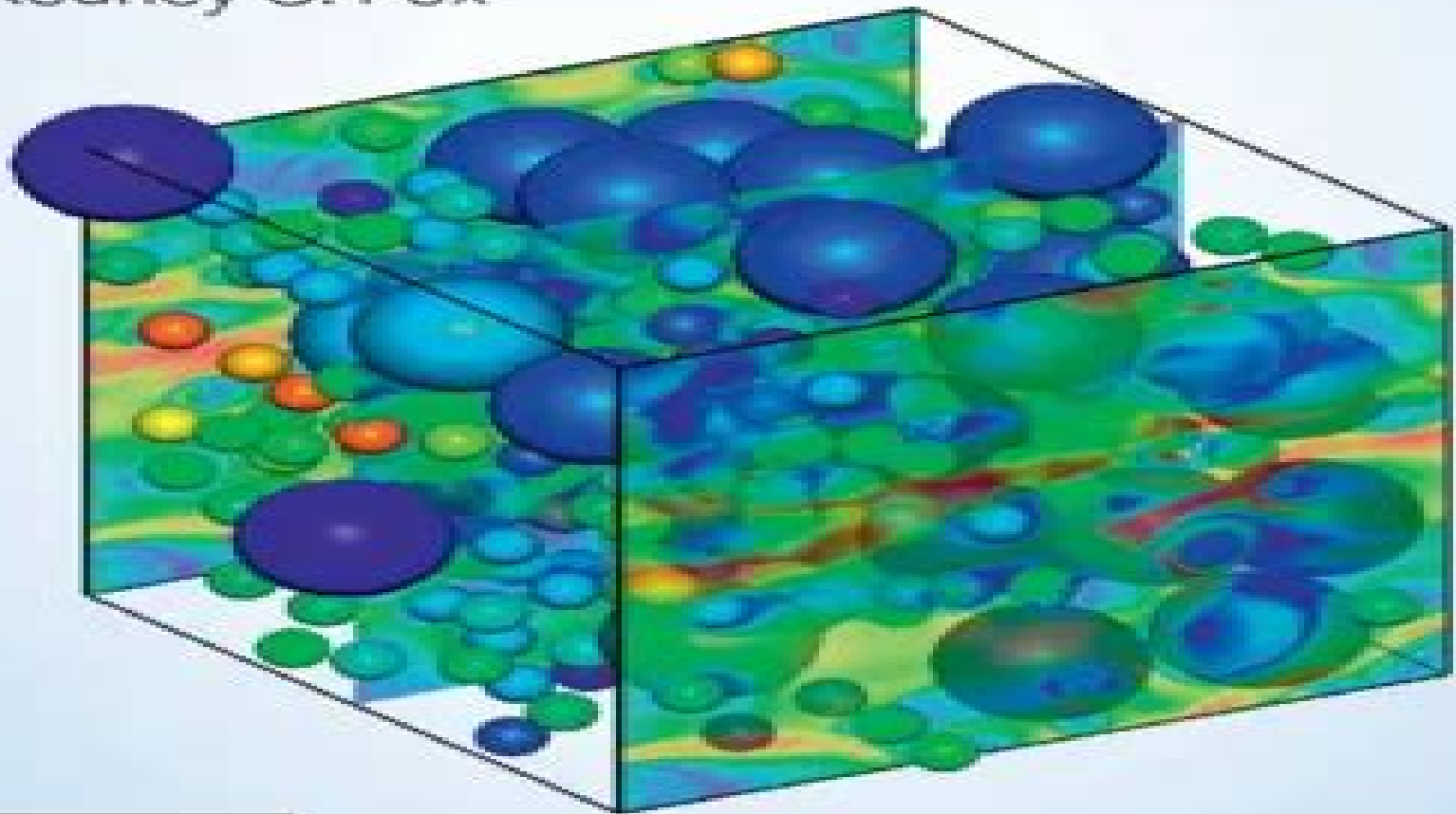


Computational Models for Polydisperse Particulate and Multiphase Systems

Daniele L. Marchisio
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Computational Models For Polydisperse Particulate And Multiphase Systems

Wioletta Podgórska



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Computational Models for Polydisperse Particulate and Multiphase Systems Daniele L. Marchisio, Rodney O. Fox, 2013-03-28 All inclusive introduction to polydisperse multiphase flows linking theory to practice through numerous real world examples and MATLAB scripts for key algorithms *Computational Models for Polydisperse Particulate and Multiphase Systems* Daniele L. Marchisio, Rodney O. Fox, 2013-03-28 Providing a clear description of the theory of polydisperse multiphase flows with emphasis on the mesoscale modelling approach and its relationship with microscale and macroscale models this all inclusive introduction is ideal whether you are working in industry or academia Theory is linked to practice through discussions of key real world cases particle droplet bubble coalescence break up nucleation advection and diffusion and physical and phase space providing valuable experience in simulating systems that can be applied to your own applications Practical cases of QMOM DQMOM CQMOM EQMOM and ECQMOM are also discussed and compared as are realizable finite volume methods This provides the tools you need to use quadrature based moment methods choose from the many available options and design high order numerical methods that guarantee realizable moment sets In addition to the numerous practical examples MATLAB scripts for several algorithms are also provided so you can apply the methods described to practical problems straight away

Multiphase Particulate Systems in Turbulent Flows Wioletta Podgórska, 2019-09-17 Multiphase Particulate Systems in Turbulent Flows Fluid Liquid and Solid Liquid Dispersions provides methods necessary to analyze complex particulate systems and related phenomena including physical chemical and mathematical description of fundamental processes influencing crystal size and shape suspension rheology interfacial area of drops and bubbles in extractors and bubble columns Examples of mathematical model formulation for different processes taking place in such systems is shown Discussing connections between turbulent mixing mechanisms and precipitation it discusses influence of fine scale structure of turbulence including its intermittent character on breakage of drops bubbles cells plant cell aggregates An important aspect of the mathematical modeling presented in the book is multi fractal taking into account the influence of internal intermittency on different phenomena Key Features Provides detailed descriptions of dispersion processes in turbulent flow interactions between dispersed entities and continuous phase in a single volume Includes simulation models and validation experiments for liquid liquid gas liquid and solid liquid dispersions in turbulent flows Helps reader learn formulation of mathematical models of breakage or aggregation processes using multifractal theory Explains how to solve different forms of population balance equations Presents a combination of theoretical and engineering approaches to particulate systems along with discussion of related diversity with exercises and case studies

Computational Transport Phenomena of Fluid-Particle Systems Hamid Arastoopour, Dimitri Gidaspow, Emad Abbasi, 2016-12-25 This book concerns the most up to date advances in computational transport phenomena CTP an emerging tool for the design of gas solid processes such as fluidized bed systems The authors examine recent work in kinetic

theory and CTP and illustrate gas solid processes many applications in the energy chemical pharmaceutical and food industries They also discuss the kinetic theory approach in developing constitutive equations for gas solid flow systems and how it has advanced over the last decade as well as the possibility of obtaining innovative designs for multiphase reactors such as those needed to capture CO₂ from flue gases Suitable as a concise reference and a textbook supplement for graduate courses *Computational Transport Phenomena of Gas Solid Systems* is ideal for practitioners in industries involved with the design and operation of processes based on fluid particle mixtures such as the energy chemicals pharmaceuticals and food processing

Integrated Chemical Processes in Liquid Multiphase Systems Matthias Kraume, Sabine Enders, Anja Drews, Reinhard Schomäcker, Sebastian Engell, Kai Sundmacher, 2022-06-21 Liquid multiphase processes represent a promising option for realizing novel efficient and sustainable production processes as required for the transformation towards climate neutral manufacturing processes This volume presents the results obtained over twelve years in the DFG funded collaborative project Transregio 63 *Integrated Chemical Processes in Liquid Multiphase Systems* In an interdisciplinary approach to the design and operation of such processes essential principles of Green Chemistry are realized such as using long chain olefins as model representatives of renewable raw materials highly efficient catalysts and green solvents linked with process optimization to improve energy and material efficiency Experts from different fields addressed all steps of the development process from the description of the reactions on the molecular level via thermodynamics and the design of efficient separation processes to the operation of entire miniplants for liquid multiphase production processes Thus the complete development chain from the first reaction related investigations in the laboratory to the technological realization in miniplants with model based control is demonstrated Numerous methodological innovations are proposed and validated using several innovative phase systems thermomorphic multiphase systems microemulsion systems Pickering emulsions and homogeneously catalyzed reactions Engineers and chemists from the chemical industry as well as advanced students and researchers will get valuable insights into the physico chemical phenomena in chemical multiphase processes and benefit from recommendations concerning methods for the selection of phase systems and rapid model based process development

Design and Processing of Particulate Products Jim Litster, 2016-10-20 With this unique and comprehensive text readers will gain the quantitative tools needed to engineer the particulate processes and products that are ubiquitous in modern life Covering a series of particle and particulate delivery form design processes with emphasis on design and operation to control particle attributes and supported by many worked examples it is essential reading for students and practitioners Topics covered include a range of particle design processes such as crystallization and precipitation granulation grinding aerosol processes and spray drying as well as forms of delivery such as granules tablets dry powders and aerosols Readers will learn from real world examples how the primary particle properties and the structure and properties of the delivery form can lead to high performance products ranging from pharmaceuticals consumer goods

and foods to specialty chemicals paints agricultural chemicals and minerals *Dynamics of Multiphase Flows* Chao Zhu,Liang-Shih Fan,Zhao Yu,2021-06-17 Address physical principles and unified theories governing multiphase flows with methods applications and problems **Modeling Approaches and Computational Methods for Particle-laden Turbulent Flows** Shankar Subramaniam,S. Balachandar,2022-10-20 Modelling Approaches and Computational Methods for Particle laden Turbulent Flows introduces the principal phenomena observed in applications where turbulence in particle laden flow is encountered while also analyzing the main methods for analyzing numerically The book takes a practical approach providing advice on how to select and apply the correct model or tool by drawing on the latest research Sections provide scales of particle laden turbulence and the principal analytical frameworks and computational approaches used to simulate particles in turbulent flow Each chapter opens with a section on fundamental concepts and theory before describing the applications of the modelling approach or numerical method Featuring explanations of key concepts definitions and fundamental physics and equations as well as recent research advances and detailed simulation methods this book is the ideal starting point for students new to this subject as well as an essential reference for experienced researchers Provides a comprehensive introduction to the phenomena of particle laden turbulent flow Explains a wide range of numerical methods including Eulerian Eulerian Eulerian Lagrange and volume filtered computation Describes a wide range of innovative applications of these models **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 **Chemical Production Scheduling** Christos T. Maravelias,2021-05-06 Understand common scheduling as well as other advanced operational problems with this valuable reference from a recognized leader in the field Beginning with basic principles and an overview of linear and mixed integer programming this unified treatment introduces the fundamental ideas underpinning most modeling approaches and will allow you to easily develop your own models With more than 150 figures the basic concepts and ideas behind the development of different approaches are clearly illustrated Addresses a wide range of problems arising in diverse industrial sectors from oil and gas to

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