

Hugo A. Jakobsen

Chemical Reactor Modeling

Multiphase Reactive Flows



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Puja Mehta

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Chemical Reactor Modeling Hugo A. Jakobsen, 2014-04-02 Chemical Reactor Modeling closes the gap between Chemical Reaction Engineering and Fluid Mechanics. The second edition consists of two volumes. Volume 1 Fundamentals. Volume 2 Chemical Engineering Applications. In volume 1 most of the fundamental theory is presented. A few numerical model simulation application examples are given to elucidate the link between theory and applications. In volume 2 the chemical reactor equipment to be modeled are described. Several engineering models are introduced and discussed. A survey of the frequently used numerical methods algorithms and schemes is provided. A few practical engineering applications of the modeling tools are presented and discussed. The working principles of several experimental techniques employed in order to get data for model validation are outlined. The monograph is based on lectures regularly taught in the fourth and fifth years graduate courses in transport phenomena and chemical reactor modeling and in a post graduate course in modern reactor modeling at the Norwegian University of Science and Technology Department of Chemical Engineering Trondheim Norway. The objective of the book is to present the fundamentals of the single fluid and multi fluid models for the analysis of single and multiphase reactive flows in chemical reactors with a chemical reactor engineering rather than mathematical bias. Organized into 13 chapters it combines theoretical aspects and practical applications and covers some of the recent research in several areas of chemical reactor engineering. This book contains a survey of the modern literature in the field of chemical reactor modeling.

[Computational Flow Modeling for Chemical Reactor Engineering](#) Vivek V. Ranade, 2002 The book relates the individual aspects of chemical reactor engineering and computational flow modeling in a coherent way to explain the potential of computational flow modeling for reactor engineering research and practice.

Handbook of Chemical Reactors Wladimir Reshetilowski, 2025-12-31 This comprehensive handbook presents chemical reaction engineering in detail and deals in particular with the multitude of chemical reactors used in the chemical

industry including ecological and economic aspects Computational Fluid Dynamics Adela Ionescu,2018-02-14 This book is the result of a careful selection of contributors in the field of CFD It is divided into three sections according to the purpose and approaches used in the development of the contributions The first section describes the high performance computing HPC tools and their impact on CFD modeling The second section is dedicated to CFD models for local and large scale industrial phenomena Two types of approaches are basically contained here one concerns the adaptation from global to local scale e g the applications of CFD to study the climate changes and the adaptations to local scale The second approach very challenging is the multiscale analysis The third section is devoted to CFD in numerical modeling approach for experimental cases Its chapters emphasize on the numerical approach of the mathematical models associated to few experimental industrial cases Here the impact and the importance of the mathematical modeling in CFD are focused on It is expected that the collection of these chapters will enrich the state of the art in the CFD domain and its applications in a lot of fields This collection proves that CFD is a highly interdisciplinary research area which lies at the interface of physics engineering applied mathematics and computer science

Industrial Catalytic Processes for Fine and Specialty Chemicals Sunil S Joshi,Vivek V. Ranade,2016-04-12 Industrial Catalytic Processes for Fine and Specialty Chemicals provides a comprehensive methodology and state of the art toolbox for industrial catalysis The book begins by introducing the reader to the interesting challenging and important field of catalysis and catalytic processes The fundamentals of catalysis and catalytic processes are fully covered before delving into the important industrial applications of catalysis and catalytic processes with an emphasis on green and sustainable technologies Several case studies illustrate new and sustainable ways of designing catalysts and catalytic processes The intended audience of the book includes researchers in academia and industry as well as chemical engineers process development chemists and technologists working in chemical industries and industrial research laboratories Discusses the fundamentals of catalytic processes catalyst preparation and characterization and reaction engineering Outlines the homogeneous catalytic processes as they apply to specialty chemicals Introduces industrial catalysis and catalytic processes for fine chemicals Includes a number of case studies to demonstrate the various processes and methods for designing green catalysts

Population Balance of Particles in Flows Stelios Rigopoulos,2024-11-21 A self contained text that explains the population balance methodology including its coupling with fluid mechanics and its applications

Multiphase reacting flows: modelling and simulation Daniele L. Marchisio,Rodney O. Fox,2007-10-16 This book entitled Multiphase reacting flows modelling and simulation contains the lecture notes of the CISM International Centre for Mechanical Sciences course held in Udine Italy on July 3 7 2006 and it describes various modelling approaches for dealing with polydisperse multiphase reacting flows A multiphase reacting system is characterized by the presence of multiple phases and in this book we focus on disperse multiphase systems where one phase can be considered as a continuum whereas the additional phases are dispersed in the continuous one In other words in this book we deal with

multiphase systems constituted by particles droplets or bubbles i e solid particles suspended in a continuous liquid phase liquid droplets in a gaseous phase or gas bubbles in liquid The other important characteristic elements of the systems discussed in this book are the presence of one or more chemical reactions and the turbulent nature of the flow The chemical reactions usually involve all the phases present in the system and might be responsible for the formation or disappearance of the disperse and or continuous phases The evolution of the different phases is not only governed by chemical reactions but also by other fluid dynamical interactions between the continuous and the disperse phases and by interactions among elements of the disperse phases such as coalescence aggregation agglomeration and break up Computational Methods in Science and Engineering George Maroulis, Theodore E. Simos, 2009-09-02 The aim of ICCMSE 2008 is to bring together computational scientists and engineers from several disciplines in order to share methods methodologies and ideas The potential readers are all the scientists with interest in Computational Mathematics Theoretical Physics Computational Physics Theoretical Chemistry Computational Chemistry Mathematical Chemistry Computational Engineering Computational Mechanics Computational Biology and Medicine Scientific Computation High Performance Computing Parallel and Distributed Computing Visualization Problem Solving Environments Software Tools Advanced Numerical Algorithms Modelling and Simulation of Complex Systems Web based Simulation and Computing Grid based Simulation and Computing Computational Grids and Computer Science Separation Process Engineering Phillip C. Wankat, 2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author's Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration

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Flows of Reactive Fluids Roger Prud'homme,2010-07-15 The modeling of reactive flows has progressed mainly with advances in aerospace which gave birth to a new science called aerothermochemistry as well as through developments in chemical and process engineering This work examines basic concepts and methods necessary to study reactive flows and transfer phenomena in areas such as fluid mechanics thermodynamics and chemistry The book presents tools of interest to graduate students researchers in mathematical physics and engineers who wish to investigate problems of reactive flows Portions of the text may be used in courses on the physics of liquids or in seminars on mechanics **CEP Software Directory ,1999 Revue de l'Institut français du pétrole** Institut français du pétrole,1996 *Ei Engineering Conference Index: pt. 1. Civil, environmental, and geological engineering ,1985* **Two-phase Flow in Energy Exchange Systems** American Society of Mechanical Engineers. Winter Annual Meeting,1992 *Peterson's Guide to Graduate Programs in Engineering and Applied Sciences ,1991*

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