

Hugo A. Jakobsen

Chemical Reactor Modeling

Multiphase Reactive Flows

Second Edition



Springer

Chemical Reactor Modeling Multiphase Reactive Flows

Hugo A. Jakobsen



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Chemical Reactor Modeling Hugo A. Jakobsen, 2008-10-15 Chemical Reactor Modeling closes the gap between Chemical Reaction Engineering and Fluid Mechanics It presents 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 The book discusses numerical methods for solving the resulting equations as well as the interplay between physical and numerical modes It is organized in 12 chapters combining 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 The book is written by a Chemical Engineer for Chemical Process Engineers using the standard terminology of this community It is intended for researchers and engineers who want to develop their own codes or who are interested in a deeper insight into commercial CFD codes in order to derive consistent extensions and to overcome black box practice It can also serve as a textbook and reference book for both students and practitioners

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

Chemical Reactor Modeling Hugo A. Jakobsen, 2010-11-16 This book closes the gap between Chemical Reaction Engineering and Fluid Mechanics It provides the basic theory for momentum heat and mass transfer in reactive systems Numerical methods for solving the resulting equations as well as the interplay between physical and numerical modes are discussed The book is written using the standard terminology of this community It is intended for researchers and engineers who want to develop their own codes or who are interested in a deeper insight into commercial

CFD codes in order to derive consistent extensions and to overcome black box practice It can also serve as a textbook and reference book

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

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

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

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

32nd European Symposium on Computer Aided Process Engineering Ludovic Montastruc, Stephane Negny, 2022-06-30 32nd European Symposium on Computer Aided Process Engineering ESCAPE 32 contains the papers presented at the 32nd European Symposium of Computer Aided Process Engineering ESCAPE event held in Toulouse France It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries who work in process development and design Presents findings and discussions from the 32nd European Symposium of Computer Aided Process Engineering ESCAPE event

Multicomponent and Multiscale Systems Juergen Geiser, 2015-08-21 This book examines the latest research results from combined multi component and multi scale explorations It provides theory considers underlying numerical methods and presents brilliant computational experimentation Engineering computations featured in this monograph further offer particular interest to many researchers engineers and computational scientists working in frontier modeling and applications of multicomponent and multiscale problems Professor Geiser gives specific attention to the aspects of decomposing and splitting delicate structures and controlling decomposition and the rationale behind many important applications of multi component and multi scale analysis Multicomponent and Multiscale Systems Theory Methods and Applications in Engineering also considers the question of why iterative methods can be powerful and more appropriate for well balanced multiscale and multicomponent coupled nonlinear problems The book is ideal for engineers and scientists working in theoretical and applied areas

Advances in Fluid Mechanics IX Matur Rahman, C. A. Brebbia, 2012 This book discusses the basic formulations of fluid mechanics and their computer modelling as well as the relationship between experimental and analytical results Containing papers from the Ninth International Conference on Advances in Fluid Mechanics this book discusses the basic formulations of fluid mechanics and their computer modelling as well as the relationship between experimental and analytical results Scientists engineers and other professionals interested in the latest developments in theoretical and computational fluid mechanics will find the book a useful addition to the literature The book covers a wide

range of topics with emphasis on new applications and research currently in progress including Computational Methods in Fluid Mechanics Environmental Fluid Mechanics Experimental Versus Simulation Methods Multiphase Flow Hydraulics and Hydrodynamics Heat and Mass Transfer Industrial Applications Wave Studies Biofluids Fluid Structure Interaction

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

Aquaculture Engineering Odd-Ivar Lekang, 2019-10-25 The revised edition of the comprehensive book that explores the principles and applications of aquaculture engineering Since the publication of the first edition of Aquaculture Engineering there have been many advances in the industry The revised and thoroughly updated third edition of Aquaculture Engineering covers the principles and applications of all major facets of aquaculture engineering and the newest developments in the field Written by a noted expert on the topic the new edition highlights information on new areas of interest including RAS technology and offshore fish farming Comprehensive in scope the book examines a range of topics including water transportation and treatment feed and feeding systems fish transportation and grading cleaning and waste handling instrumentation and monitoring removal of particles aeration and oxygenation recirculation and water reuse systems ponds and the design and construction of aquaculture facilities This important book Presents an updated review of the basic principles and applications in aquaculture engineering Includes information on new areas of focus RAS technology and offshore fish farming Contains a revised edition of the classic resource on aquaculture engineering Continues to offer an authoritative guide written by a leading expert in the field Written for aquaculture scientists and managers engineers equipment manufacturers and suppliers and biological scientists the third edition of Aquaculture Engineering is the authoritative guide to the topic that has been updated to include the most recent developments in the industry

Finite Element Method (FEM) Model and Performance Analysis of Solid Oxide Fuel Cells Geisler, Helge Ingolf, 2019-07-10 This work presents a numerical FEM framework capable of predicting SOFC performance under technically relevant planar stack contacting conditions A high level of confidence in the model predictions is supplied by using exclusively experimentally determined material kinetic parameters and by a comprehensive validation The presented model aids SOFC stack development by pre evaluating possible material choices and design combinations for cells interconnectors without any experimental effort

26th European Symposium on Computer Aided Process Engineering, 2016-06-17 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer Aided Process Engineering ESCAPE Event held at Portoro Slovenia from June 12th to June 15th 2016 Themes discussed at the conference include Process product Synthesis Design and Integration Modelling Numerical analysis Simulation and Optimization Process Operations and Control and Education in CAPE PSE Presents findings and discussions from the 26th European Society of Computer Aided Process Engineering ESCAPE Event

Control of Higher-Dimensional PDEs Thomas Meurer, 2012-08-13 This monograph presents new

model based design methods for trajectory planning feedback stabilization state estimation and tracking control of distributed parameter systems governed by partial differential equations PDEs Flatness and backstepping techniques and their generalization to PDEs with higher dimensional spatial domain lie at the core of this treatise This includes the development of systematic late lumping design procedures and the deduction of semi numerical approaches using suitable approximation methods Theoretical developments are combined with both simulation examples and experimental results to bridge the gap between mathematical theory and control engineering practice in the rapidly evolving PDE control area The text is divided into five parts featuring a literature survey of paradigms and control design methods for PDE systems the first principle mathematical modeling of applications arising in heat and mass transfer interconnected multi agent systems and piezo actuated smart elastic structures the generalization of flatness based trajectory planning and feedforward control to parabolic and biharmonic PDE systems defined on general higher dimensional domains an extension of the backstepping approach to the feedback control and observer design for parabolic PDEs with parallelepiped domain and spatially and time varying parameters the development of design techniques to realize exponentially stabilizing tracking control the evaluation in simulations and experiments Control of Higher Dimensional PDEs Flatness and Backstepping Designs is an advanced research monograph for graduate students in applied mathematics control theory and related fields The book may serve as a reference to recent developments for researchers and control engineers interested in the analysis and control of systems governed by PDEs

Multiphase Flows for Process Industries Vivek V. Ranade, Ranjeet P. Utikar, 2022-03-30 Discover the cutting edge in multiphase flows used in the process industries In Multiphase Flows for Process Industries Fundamentals and Applications a team of accomplished chemical engineers delivers an insightful and complete treatment of the state of the art in commonly encountered multiphase flows in the process industries After discussing the theoretical background experimental methods and computational methods applicable to multiphase flows the authors explore specific examples from the process industries The book covers a wide range of multiphase flows including gas solid fluidized beds and flows with phase change It also provides direction on how to use current advances in the field to realize efficient and optimized processes Filling the gap between theory and practice this unique reference also includes A thorough introduction to multiphase flows and the process industry Practical discussions of flow regimes lower order models and correlations and the chronological development of mathematical models for multiphase flows Comprehensive explorations of experimental methods for characterizing multiphase flows including flow imaging and visualization In depth examinations of computational models for simulating multiphase flows Perfect for chemical and process engineers Multiphase Flows for Process Industries Fundamentals and Applications is required reading for graduate and doctoral students in the engineering sciences as well as professionals in the chemical industry

Transformation of Biomass Andreas Hornung, 2014-07-02 Biomass is a key resource for meeting the energy and material demands of mankind in the future As a result businesses and technologies are

developing around biomass processing and its applications Transformation of Biomass Theory to Practice explores the modern applications of biomass and bio based residues for the generation of energy heat and chemical products The first chapter presents readers with a broad overview of biomass and its composition conversion routes and products The following chapters deal with specific technologies including anaerobic digestion pyrolysis and gasification as well as hydrothermal and supercritical conversion Each chapter details current practises recent developments business case models and comprehensive analysis of the problems associated with each approach and how to optimize them Topics covered include Anaerobic digestion Reactor design Pyrolysis Catalysis in biomass transformation Engines for combined heat and power Influence of feedstocks on performance and products Bio hydrogen from biomass Analysis of bio oils Numerical simulation and formal kinetic parameters evaluation Business case development This textbook will provide students researchers and industry professionals with a practical and accessible guide to the essential skills required to advance in the field of bioenergy

Iterative Splitting Methods for Differential Equations Juergen Geiser, 2011-06-01 Iterative Splitting Methods for Differential Equations explains how to solve evolution equations via novel iterative based splitting methods that efficiently use computational and memory resources It focuses on systems of parabolic and hyperbolic equations including convection diffusion reaction equations heat equations and wave equations In the theoretical part of the book the author discusses the main theorems and results of the stability and consistency analysis for ordinary differential equations He then presents extensions of the iterative splitting methods to partial differential equations and spatial and time dependent differential equations The practical part of the text applies the methods to benchmark and real life problems such as waste disposal elastics wave propagation and complex flow phenomena The book also examines the benefits of equation decomposition It concludes with a discussion on several useful software packages including r3t and FIDOS Covering a wide range of theoretical and practical issues in multiphysics and multiscale problems this book explores the benefits of using iterative splitting schemes to solve physical problems It illustrates how iterative operator splitting methods are excellent decomposition methods for obtaining higher order accuracy

30th European Symposium on Computer Aided Chemical Engineering Sauro Pierucci, Flavio Manenti, Giulia Luisa Bozzano, Davide Manca, 2020-10-23 30th European Symposium on Computer Aided Chemical Engineering Volume 47 contains the papers presented at the 30th European Symposium of Computer Aided Process Engineering ESCAPE event held in Milan Italy May 24 27 2020 It is a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries Presents findings and discussions from the 30th European Symposium of Computer Aided Process Engineering ESCAPE event Offers a valuable resource for chemical engineers chemical process engineers researchers in industry and academia students and consultants for chemical industries

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