

VOLUME II -
DESIGN METHODS

MULTIPHASE CHEMICAL REACTORS

ALIRIO E. RODRIGUES
JOSEPH M. CALO
and
NORMAN H. SWEED

Multiphase Chemical Reactors Design Methods

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Multiphase Chemical Reactors A.E. Rodrigues, J.M. Calo, N.H. Sweed, 1981-09-30 Multiphase Chemical Reactors A.E. Rodrigues, J.M. Calo, N.H. Sweed, 2014-04-21 Multiphase reactors are becoming an important subject as a result of numerous applications in various fields ranging from chemical and petrochemical to food biological and pharmaceutical FBPI en gineering namely in the hydrodesulfurization of petroleum produc tion of antibiotics and wastewater treatment The importance of the subject is measured by the increasing num ber of publications and meeting sections dedicated to it Therefore an Advanced Study Institute on Multiphase Chemical Reactors was held in Vimeiro Portugal from 18 to 30 August 1980 following an International Symposium on Chemical Engineering of Gas Liquid Solid Catalyst Reactions held in Liege 1978 The purpose of this NATO ASI was to present a didacted approach to multiphase reactor design through the interaction among hydro dynamics reaction and transport processes The lectures delivered there are compiled in two volumes In the first volume an overview of the field is presented followed by a detailed analysis of the fundamental concepts interphase mass transfer models mass transfer with chemical reaction theory of residence time distributions and micromixing phenomenal Numerical methods are often required to solve the mathematical models involved so a chapter is dedicated to this subject followed by a discussion of steady state multiplicity and stability Finally a section with special applications of multiphase reactors is included presenting topics on biological reactors emulsion po lymerization supported liquid phase catalyst and enhanced oil re VI covery Design of Multiphase Reactors Vishwas G. Pangarkar, 2014-12-01 Details simple design methods for multiphase reactors in the chemical process industries Includes basic aspects of transport in multiphase reactors and the importance of relatively reliable and simple procedures for predicting mass transfer parameters Details of design and scale up aspects of several important types of multiphase reactors Examples illustrated through design methodologies presenting different reactors for reactions that are industrially important Includes simple spreadsheet packages rather than complex algorithms programs or computational aid *Multiphase Catalytic Reactors* Zeynep Ilsen Önsan, Ahmet Kerim Avci, 2016-07-05 Provides a holistic approach to multiphase catalytic reactors from their modeling and design to their applications in industrial manufacturing of chemicals Covers theoretical aspects and examples of fixed bed fluidized bed trickle bed slurry monolith and microchannel reactors Includes chapters covering experimental techniques and practical guidelines for lab scale testing of multiphase reactors Includes mathematical content focused on design equations and empirical relationships characterizing different multiphase reactor types together with an assortment of computational tools Involves detailed coverage of multiphase reactor applications such as Fischer Tropsch synthesis fuel processing for fuel cells hydrotreating of oil fractions and biofuels processing **Structured Catalysts and Reactors** Andrzej Cybulski, Jacob A. Moulijn, 2005-11-02 Interest in structured catalysts is steadily increasing due to the already proven as well as potential advantages of these catalysts Updating the comprehensive coverage of the first edition published in 1998 with the latest

science and applications Structured Catalysts and Reactors Second Edition gives detailed information on all aspects of structured catalysts and reactors including materials mass transfer selectivity activity and stability catalyst preparation design and characterization process development modeling and optimization reactor design and operation costs and considerations The book first examines how monolithic catalysts are used to clean exhaust gas from gasoline engines treat industrial off gases burn fuels in commercial settings and synthesize chemicals in two and three phase processes It discusses configurations microstructure physical properties and manufacture of ceramic and metallic monoliths before directing its focus to arranged catalysts and structured packings in terms of mass transfer The book then explores catalytically active membranes and filters featuring metallic membranes permeation mechanisms preparation and modeling commercial membranes and the latest applications such as zeolitic membranes Finally several chapters present techniques for incorporating catalytic species into the structured catalyst support and controlling catalyst nanoporosity This book conveys the scientific as well as economic advantages of using these unconventional catalytic techniques With over 1500 references tables drawings and photographs as well as in depth discussions and a new approach to catalytic processes Structured Catalysts and Reactors Second Edition is an essential reference for anyone working with or studying catalysis

Disorder and Mixing E. Guyon,J.P. Nadal,Yves Pomeau,2012-12-06 CARGESE INSTITUTe ON DISORDER AND MIXING Convection diffusion and reaction are the three basic mechanisms in physico chemical hydrodynamics and chemical engineering Both convective and diffusive processes are strongly influenced by the effect of disorder of granular matter in porous media suspensions fluidized beds or and by the randomness caused in turbulent flow field This book has been initiated by a NATO summer institute held in Cargese Corsica FRANCE from June 15 th to 27 th 1987 Its aim was to associate statistical physicists fluid mechanics and specialists of chemical engineering on the problems of the relation between disorder and mixing and in this respect this is a premiere This book is made of chapters based on lectures given in the meeting However we have paid a considerable attention to harmonize the contents and styles of chapters made by scientists trained in different communities and using different languages and techniques to describe similar problems The Prelude by the editors of the book introduces the different points and is a biased view of some of the important and most active aspects of the subjects developed We wish to thank all contributors and students of the institute who gave the style of the present interdisciplinary approach We also greatly thank Elisabeth Charlaix who has shared with us the scientific and practical organisation of the institute and Marie France Hanseler for her technical support

27th European Symposium on Computer Aided Process Engineering ,2017-09-21 27th European Symposium on Computer Aided Process Engineering Volume 40 contains the papers presented at the 27th European Society of Computer Aided Process Engineering ESCAPE event held in Barcelona October 1 5 2017 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 27th European Society of

Computer Aided Process Engineering ESCAPE event **Multiphase Chemical Reactors** A.E. Rodrigues, J.M. Calo, N.H. Sweed, 1981-10-14 Multiphase reactors are becoming an important subject as a result of numerous applications in various fields ranging from chemical and petrochemical to food biological and pharmaceutical Engineering namely in the hydrodesulfurization of petroleum production of antibiotics and wastewater treatment The importance of the subject is measured by the increasing number of publications and meeting sections dedicated to it Therefore an Advanced Study Institute on Multiphase Chemical Reactors was held in Vimeiro Portugal from 18 to 30 August 1980 following an International Symposium on Chemical Engineering of Gas Liquid Solid Catalyst Reactions held in Liege 1978 The purpose of this NATO ASI was to present a didactic approach to multiphase reactor design through the interaction among hydrodynamics reaction and transport processes The lectures delivered there are compiled in two volumes In the first volume an overview of the field is presented followed by a detailed analysis of the fundamental concepts interphase mass transfer models mass transfer with chemical reaction theory of residence time distributions and micromixing phenomena Numerical methods are often required to solve the mathematical models involved so a chapter is dedicated to this subject followed by a discussion of steady state multiplicity and stability Finally a section with special applications of multiphase reactors is included presenting topics on biological reactors emulsion polymerization supported liquid phase catalyst and enhanced oil recovery *Hydrodynamics of Gas-Liquid Reactors* Barry Azzopardi, Donglin Zhao, Y. Yan, H. Morvan, R. F. Mudde, Simon Lo, 2011-05-12 The design of chemical reactors and their safety are as critical to the success of a chemical process as the actual chemistry taking place within the reactor This book provides a comprehensive overview of the practical aspects of multiphase reactor design and operation with an emphasis on safety and clean technology It considers not only standard operation conditions but also the problems of runaway reaction conditions and protection against ensuing over pressure Hydrodynamics of Multiphase Reactors addresses both practical and theoretical aspects of this topic Initial chapters discuss various different types of gas liquid reactors from a practical viewpoint and later chapters focus on the modelling of multiphase systems and computational methods for reactor design and problem solving The material is written by experts in their specific fields and will include chapters on the following topics Multiphase flow Bubble columns Sparged stirred vessels Macroscale modelling Microscale modelling Runaway conditions Behaviour of vessel contents Choked flow Measurement techniques **Multiphase Chemical Reactors** Giancarlo Baldi, 1986 **Multiphase Chemical Reactors** A.E. Rodrigues, J.M. Calo, N.H. Sweed, 1981-09-30 Multiphase reactors are becoming an important subject as a result of numerous applications in various fields ranging from chemical and petrochemical to food biological and pharmaceutical Engineering namely in the hydrodesulfurization of petroleum production of antibiotics and wastewater treatment The importance of the subject is measured by the increasing number of publications and meeting sections dedicated to it Therefore an Advanced Study Institute on Multiphase Chemical Reactors was held in Vimeiro Portugal from 18 to 30 August

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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

New Generation Tools for Multiphase Chemical Reactors V. L. Mehta, A. C. Kokossis, American Institute of Chemical Engineers, American Institute of Chemical Engineers. Annual Meeting, 1997

Recent Trends in Chemical Reaction Engineering B. D. Kulkarni, R. A. Mashelkar, Man Mohan Sharma, 1987

Chemical Reactor Design Juan A. Conesa, 2019-12-04 A guide to the technical and calculation problems of chemical reactor analysis scale up catalytic and biochemical reactor design

Chemical Reactor Design offers a guide to the myriad aspects of reactor design including the use of numerical methods for solving engineering problems The author a noted expert on the topic explores the use of transfer functions to study residence time distributions convolution and deconvolution curves for reactor characterization forced unsteady state operation scale up of chemical reactors industrial catalysis design of multiphasic reactors biochemical reactors design as well as the design of multiphase gas liquid solid reactors Chemical Reactor Design contains several examples of calculations and it gives special emphasis on the numerical solutions of differential equations by using the finite differences approximation which offers the background information for understanding other more complex methods The book is designed for the chemical engineering academic community and includes case studies on mathematical modeling by using of MatLab software This important book Offers an up to date insight into the most important developments in the field of chemical catalytic and biochemical reactor engineering Contains new aspects such as the use of numerical methods for solving engineering problems transfer functions to study residence time distributions and more Includes illustrative case studies on MatLab approach with emphasis on numerical solution of differential equations using the finite differences approximation Written for chemical engineers mechanical engineers chemists in industry complex chemists bioengineers and process engineers Chemical Reactor Design addresses the technical and calculation problems of chemical reactor analysis scale up as well as catalytic and biochemical reactor design

Process Intensification Mirko Skiborowski, Andrzej Górak, 2022-06-06 Process intensification aims for

increasing efficiency and sustainability of biochemical production processes This book presents strategies for the intensification of fluid separation processes such as reactive distillation reactive absorption and membrane assisted separations The authors discuss theoretical fundamentals model development methods for synthesis and the design as well as scale up and industrial process applications *Multiphase Chemical Reactors* A.E. Rodrigues,J.M. Calo,N.H. Sweed,1981-09-30

Multiphase reactors are becoming an important subject as a result of numerous applications in various fields ranging from chemical and petrochemical to food biological and pharmaceutical FBPI engineering namely in the hydrodesulfurization of petroleum production of antibiotics and wastewater treatment The importance of the subject is measured by the increasing number of publications and meeting sections dedicated to it Therefore an Advanced Study Institute on Multiphase Chemical Reactors was held in Vimeiro Portugal from 18 to 30 August 1980 following an International Symposium on Chemical Engineering of Gas Liquid Solid Catalyst Reactions held in Liege 1978 The purpose of this NATO ASI was to present a didacted approach to multiphase reactor design through the interaction among hydrodynamics reaction and transport processes The lectures delivered there are compiled in two volumes In the first volume an overview of the field is presented followed by a detailed analysis of the fundamental concepts interphase mass transfer models mass transfer with chemical reaction theory of residence time distributions and micromixing phenomenal Numerical methods are often required to solve the mathematical models involved so a chapter is dedicated to this subject followed by a discussion of steady state multiplicity and stability Finally a section with special applications of multiphase reactors is included presenting topics on biological reactors emulsion polymerization supported liquid phase catalyst and enhanced oil recovery **Encyclopedia**

of Fluid Mechanics: Gas-liquid flows ,1986 **Numerical Simulation of Multiphase Reactors with Continuous Liquid** Chao Yang,Zai-Sha Mao,2014-06-13 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 *Chemical Engineering and Chemical Process Technology - Volume III* Ryzhard Pohorecki,John Bridgwater,M. Molzahn. Rafiqul Gani

and Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded into multiple subtopics each as a chapter These five volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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