



Concepts And Design Of Chemical Reactors

J Ma



Concepts And Design Of Chemical Reactors:

Concepts and Design of Chemical Reactors Stephen Whitaker, Alberto E. Cassano, 1986 *Novel Concepts in Catalysis and Chemical Reactors* Andrzej Cybulski, Jacob A. Moulijn, Andrzej Stankiewicz, 2011-08-04 The chemical process industry faces a tremendous challenge of supplying a growing and ever more demanding global population with the products we need. The average efficiency at which resources are converted into the final products is however still dramatically low. The most obvious solution is to carry out chemical conversions at much higher yields and selectivity and this is where active and selective catalysts and efficient chemical reactors play a crucial role. Written by an international team of highly experienced editors and authors from academia and industry, this ready reference focuses on how to enhance the efficiency of catalysts and reactors. It treats key topics such as molecular modeling, zeolites, MOFs, catalysis at room temperature, biocatalysis, catalysis for sustainability, structured reactors including membrane and microchannel reactors, switching from batch to continuous reactors, application of alternative energies and process intensification. By including recent achievements and trends, the book provides an up-to-date insight into the most important developments in the field of industrial catalysis and chemical reactor engineering. In addition, several ways of improving efficiency, selectivity, activity, and improved methods for scale-up modeling and design are presented in a compact manner.

Chemical Process Design and Simulation: Aspen Plus and Aspen Hysys Applications Juma Haydary, 2019-01-23 A comprehensive and example-oriented text for the study of chemical process design and simulation. Chemical Process Design and Simulation is an accessible guide that offers information on the most important principles of chemical engineering design and includes illustrative examples of their application that uses simulation software. A comprehensive and practical resource, the text uses both Aspen Plus and Aspen Hysys simulation software. The author describes the basic methodologies for computer-aided design and offers a description of the basic steps of process simulation in Aspen Plus and Aspen Hysys. The text reviews the design and simulation of individual simple unit operations that includes a mathematical model of each unit operation such as reactors, separators, and heat exchangers. The author also explores the design of new plants and simulation of existing plants where conventional chemicals and material mixtures with measurable compositions are used. In addition, to aid in comprehension, solutions to examples of real problems are included. The final section covers plant design and simulation of processes using nonconventional components. This important resource includes information on the application of both the Aspen Plus and Aspen Hysys software that enables a comparison of the two software systems. Combines the basic theoretical principles of chemical process and design with real-world examples. Covers both processes with conventional organic chemicals and processes with more complex materials such as solids, oil blends, polymers, and electrolytes. Presents examples that are solved using a new version of Aspen software, ASPEN One 9. Written for students and academics in the field of process design. Chemical Process Design and Simulation is a practical and accessible guide to the chemical process design and simulation.

using proven software *11th International Symposium on Process Systems Engineering - PSE2012*, 2012-12-31 While the PSE community continues its focus on understanding synthesizing modeling designing simulating analyzing diagnosing operating controlling managing and optimizing a host of chemical and related industries using the systems approach the boundaries of PSE research have expanded considerably over the years While early PSE research was largely concerned with individual units and plants the current research spans wide ranges of scales in size molecules to processing units to plants to global multinational enterprises to global supply chain networks biological cells to ecological webs and time instantaneous molecular interactions to months of plant operation to years of strategic planning The changes and challenges brought about by increasing globalization and the the common global issues of energy sustainability and environment provide the motivation for the theme of PSE2012 Process Systems Engineering and Decision Support for the Flat World Each theme includes an invited chapter based on the plenary presentation by an eminent academic or industrial researcher Reports on the state of the art advances in the various fields of process systems engineering Addresses common global problems and the research being done to solve them Introduction to Chemical Engineering Kinetics and Reactor Design Charles G. Hill, Thatcher W. Root, 2014-05-27 The Second Edition features new problems that engage readers in contemporary reactor design Highly praised by instructors students and chemical engineers Introduction to Chemical Engineering Kinetics Reactor Design has been extensively revised and updated in this Second Edition The text continues to offer a solid background in chemical reaction kinetics as well as in material and energy balances preparing readers with the foundation necessary for success in the design of chemical reactors Moreover it reflects not only the basic engineering science but also the mathematical tools used by today's engineers to solve problems associated with the design of chemical reactors Introduction to Chemical Engineering Kinetics Reactor Design enables readers to progressively build their knowledge and skills by applying the laws of conservation of mass and energy to increasingly more difficult challenges in reactor design The first one third of the text emphasizes general principles of chemical reaction kinetics setting the stage for the subsequent treatment of reactors intended to carry out homogeneous reactions heterogeneous catalytic reactions and biochemical transformations Topics include Thermodynamics of chemical reactions Determination of reaction rate expressions Elements of heterogeneous catalysis Basic concepts in reactor design and ideal reactor models Temperature and energy effects in chemical reactors Basic and applied aspects of biochemical transformations and bioreactors About 70% of the problems in this Second Edition are new These problems frequently based on articles culled from the research literature help readers develop a solid understanding of the material Many of these new problems also offer readers opportunities to use current software applications such as Mathcad and MATLAB By enabling readers to progressively build and apply their knowledge the Second Edition of Introduction to Chemical Engineering Kinetics Reactor Design remains a premier text for students in chemical engineering and a valuable resource for practicing engineers **Multiphase Reactors** Jan Harmsen, René Bos, 2023-04-27

This Multiphase Reactors book is about fundamentals selection design development scale up and applications of two and three phase reactors It is a graduate textbook focused on creating understanding of the fundamentals as much as possible without resorting to mathematics It also is full of real life industrial applications and examples from the authors own experiences The target audience comprises students and industrial practitioners who may or may not have had formal training in chemical reaction engineering Each chapter explains the subject and contains take home messages examples worked out cases quiz questions and exercises

Optimization in Chemical Engineering Fernando Israel Gómez-Castro, Vicente Rico-Ramírez, 2025-04-21 Optimization is an area in constant evolution The search for robust optimization techniques to deal with the highly non convex models that represent the systems related to Chemical Engineering has led to important advances in the area The need for developing economically feasible processes which are simultaneously environmentally friendly safe and controllable requires for adequate optimization strategies Moreover finding a global optimum is still a challenge for a diversity of cases Thus this book presents a compilation of classic and emerging optimization techniques focusing on their application to systems related to the Chemical Engineering The book shows the applications of classic mathematical programming metaheuristic optimization methods and machine learning based strategies The analysis of the described techniques allows the reader identifying the advantages and disadvantages of each approach Moreover the book will discuss the perspectives for future developments on the area

Fossil Energy Update, 1980 Scientific and Technical Aerospace Reports, 1992 **Process Intensification Technologies for Green Chemistry** Kamelia Boodhoo, Adam Harvey, 2013-01-03 The successful implementation of greener chemical processes relies not only on the development of more efficient catalysts for synthetic chemistry but also and as importantly on the development of reactor and separation technologies which can deliver enhanced processing performance in a safe cost effective and energy efficient manner Process intensification has emerged as a promising field which can effectively tackle the challenges of significant process enhancement whilst also offering the potential to diminish the environmental impact presented by the chemical industry Following an introduction to process intensification and the principles of green chemistry this book presents a number of intensified technologies which have been researched and developed including case studies to illustrate their application to green chemical processes Topics covered include Intensified reactor technologies spinning disc reactors microreactors monolith reactors oscillatory flow reactors cavitation reactors Combined reactor separator systems membrane reactors reactive distillation reactive extraction reactive absorption Membrane separations for green chemistry Industry relevance of process intensification including economics and environmental impact opportunities for energy saving and practical considerations for industrial implementation Process Intensification for Green Chemistry is a valuable resource for practising engineers and chemists alike who are interested in applying intensified reactor and or separator systems in a range of industries to achieve green chemistry principles

High Temperature Equipment Aleksandr Efimovich

Sheindlin,1986-08-01 *Fluidized Bed Reactors for Carbon Capture* Lunbo Duan,Dennis Lu,2024-12-07 This open access book provides a perspective on CO₂ capture technologies that employ fluidized bed reactors FBRs involving pre combustion gasification oxy fuel combustion chemical looping combustion calcium looping process and low temperature sorption The state of the art progress from the lab scale FBRs to pilot scale demonstration facilities is summarized and the remaining challenges are discussed Moreover this book also discussed the future solutions to overcome existing barriers in the application of FBRs for CO₂ capture and provided an outlook on potential advancements and improvements The authors anticipate endeavors made herein can impel the commercialization of fluidized bed technologies for CO₂ capture from large industrial sources , Nuclear Science Abstracts ,1976 **The Chemical Reactor from Laboratory to Industrial Plant** Elio Santacesaria,Riccardo Tesser,2018-11-04 This graduate textbook written by a former lecturer addresses industrial chemical reaction topics focusing on the commercial scale exploitation of chemical reactions It introduces students to the concepts behind the successful design and operation of chemical reactors with an emphasis on qualitative arguments simple design methods graphical procedures and frequent comparison of capabilities of the major reactor types It starts by discussing simple ideas before moving on to more advanced concepts with the support of numerous case studies Many simple and advanced exercises are present in each chapter and the detailed MATLAB code for their solution is available to the reader as supplementary material on Springer website It is written for MSc chemical engineering students and novice researchers working in industrial laboratories *Solar Energy Update* ,1983 **Atomic Industry Reporter** ,1957 **Energy** ,1980 **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977 *Molten Salts Chemistry* Frederic Lantelme,Henri Groult,2013-08-14 Molten salts and fused media provide the key properties and the theory of molten salts as well as aspects of fused salts chemistry helping you generate new ideas and applications for fused salts Molten Salts Chemistry From Lab to Applications examines how the electrical and thermal properties of molten salts and generally low vapour pressure are well adapted to high temperature chemistry enabling fast reaction rates It also explains how their ability to dissolve many inorganic compounds such as oxides nitrides carbides and other salts make molten salts ideal as solvents in electrometallurgy metal coating treatment of by products and energy conversion This book also reviews newer applications of molten salts including materials for energy storage such as carbon nano particles for efficient super capacitors high capacity molten salt batteries and for heat transport and storage in solar plants In addition owing to their high thermal stability they are considered as ideal candidates for the development of safer nuclear reactors and for the treatment of nuclear waste especially to separate actinides from lanthanides by electrorefining Explains the theory and properties of molten salts to help scientists understand these unique liquids Provides an ideal introduction to this expanding field Illustrated text with key real life applications of molten salts in synthesis energy nuclear and metal extraction

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