

Chemical Reactor Analysis and Design Fundamentals

2nd Edition

James B. Rawlings
John G. Ekerdt



Chemical Reactor Analysis And Design Fundamentals

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Principles of Chemical Reactor Analysis and Design Uzi Mann, 1999-01-01 Principles of Chemical Reactor Analysis and Design offers a comprehensive unified methodology to analyze and design chemical reactors using a reaction based design formulation rather than the common species based design formulation The book's acclaimed approach addresses the weaknesses of current pedagogy by giving readers the knowledge and tools needed to address the technical challenges they will face in practice

Heterogeneous Catalysis Abdullah A. Shaikh, 2023-09-05 This textbook is a concise introduction to heterogeneous catalysis focusing on the fundamentals and industrial implementation It is written in a clear manner using language that is easily accessible to undergraduate students in chemical engineering and industrial chemistry The textbook includes exercise problems and practice software New in this edition are sections on catalyst preparation and manufacture kinetic parameter estimation and catalytic transport line reactors Solutions to all the example problems are now provided

Chemical Reaction Engineering and Reactor Technology, Second Edition Tapio O. Salmi, Jyri-Pekka Mikkola, Johan P. Wärnå, 2019-07-11 The role of the chemical reactor is crucial for the industrial conversion of raw materials into products and numerous factors must be considered when selecting an appropriate and efficient chemical reactor Chemical Reaction Engineering and Reactor Technology defines the qualitative aspects that affect the selection of an industrial chemical reactor and couples various reactor models to case specific kinetic expressions for chemical processes Thoroughly revised and updated this much anticipated Second Edition addresses the rapid academic and industrial development of chemical reaction engineering Offering a systematic development of the chemical reaction engineering concept this volume explores essential

stoichiometric kinetic and thermodynamic terms needed in the analysis of chemical reactors homogeneous and heterogeneous reactors reactor optimization aspects residence time distributions and non ideal flow conditions in industrial reactors solutions of algebraic and ordinary differential equation systems gas and liquid phase diffusion coefficients and gas film coefficients correlations for gas liquid systems solubilities of gases in liquids guidelines for laboratory reactors and the estimation of kinetic parameters The authors pay special attention to the exact formulations and derivations of mass energy balances and their numerical solutions Richly illustrated and containing exercises and solutions covering a number of processes from oil refining to the development of specialty and fine chemicals the text provides a clear understanding of chemical reactor analysis and design *Elementary Chemical Reactor Analysis* Rutherford Aris, 2013-09-03 *Elementary Chemical Reactor Analysis* focuses on the processes reactions methodologies and approaches involved in chemical reactor analysis including stoichiometry adiabatic reactors external mass transfer and thermochemistry The publication first takes a look at stoichiometry and thermochemistry and chemical equilibrium Topics include heat of formation and reaction measurement of quantity and its change by reaction concentration changes with a single reaction rate of generation of heat by reaction and equilibrium of simultaneous and heterogeneous reactions The manuscript then offers information on reaction rates and the progress of reaction in time Discussions focus on systems of first order reactions concurrent reactions of low order general irreversible reaction variation of reaction rate with extent and temperature and heterogeneous reaction rate expressions The book examines the interaction of chemical and physical rate processes continuous flow stirred tank reactor and adiabatic reactors Concerns include multistage adiabatic reactors adiabatic stirred tank stability and control of the steady state mixing in the reactor effective reaction rate expressions and external mass transfer The publication is a dependable reference for readers interested in chemical reactor analysis

Applying Multiple-Reaction Stoichiometry to Chemical Reactor Modelling Guillermo Fernando Barreto, Carlos Daniel Luzi, 2024-03-12 This book delves into the realm of Chemical Reaction Engineering CRE by showcasing the practical application of multiple reaction stoichiometry The authors critically assess various approaches commonly taught in undergraduate CRE courses to establish the relationships between changes in chemical species In doing so they propose an innovative conceptual alternative that is specifically tailored for undergraduate lectures The book carefully selects composition measures that effectively harness the power of stoichiometric relationships in elementary reacting systems and models which are typically covered in these courses Going beyond the basics it also offers a profound discussion on the value of chemical stoichiometry for tackling more intricate reaction systems and detailed models Moreover the book presents a simplified procedure that minimizes the reliance on complex linear algebra techniques making the book accessible to a wider range of readers [Transport Phenomena in Multiphase Systems](#) João M.P.Q. Delgado, Antonio Gilson Barbosa de Lima, 2018-05-09 This book presents a collection of recent contributions in the field of transport phenomena in multiphase systems namely heat and mass transfer It discusses

various topics related to the transport phenomenon in engineering including state of the art theory and applications and introduces some of the most important theoretical advances computational developments and technological applications in multiphase systems domain providing a self contained key reference that is appealing to scientists researchers and engineers alike At the same time these topics are relevant to a variety of scientific and engineering disciplines such as chemical civil agricultural and mechanical engineering

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

Chemical Solution Synthesis for Materials Design and Thin Film Device Applications Soumen Das, Sandip Dhara, 2021-01-09 Chemical Solution Synthesis for Materials Design and Thin Film Device Applications presents current research on wet chemical techniques for thin film based devices Sections cover the quality of thin films types of common films used in devices various thermodynamic properties thin film patterning device configuration and applications As a whole these topics create a roadmap for developing new materials and incorporating the results in device fabrication This book is suitable for graduate undergraduate doctoral students and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes Provides the different wet chemical routes for materials synthesis along with the most relevant thin film structured materials for device applications Discusses

patterning and solution processing of inorganic thin films along with solvent based processing techniques Includes an overview of key processes and methods in thin film synthesis processing and device fabrication such as nucleation lithography and solution processing

Computer-Aided Modeling of Reactive Systems Warren E. Stewart, Michael Caracotsios, 2008-03-17 Learn to apply modeling and parameter estimation tools and strategies to chemical processes using your personal computer This book introduces readers to powerful parameter estimation and computational methods for modeling complex chemical reactions and reaction processes It presents useful mathematical models numerical methods for solving them and statistical methods for testing and discriminating candidate models with experimental data Topics covered include Chemical reaction models Chemical reactor models Probability and statistics Bayesian estimation Process modeling with single response data Process modeling with multi response data Computer software Athena Visual Studio is available via a related Web site <http://www.athenavisual.com> enabling readers to carry out parameter estimation based on their data and to carry out process modeling using these parameters As an aid to the reader an appendix of example problems and solutions is provided Computer Aided Modeling of Reactive Systems is an ideal supplemental text for advanced undergraduates and graduate students in chemical engineering courses while it also serves as a valuable resource for practitioners in industry who want to keep up to date on the most current tools and strategies available

Fundamentals of Industrial Catalytic Processes C. H. Bartholomew, Robert J. Farrauto, 2011-11-30 Catalysis is central to the chemical industry as it is directly or involved in the production of almost all useful chemical products In this book the authors present the definitive account of industrial catalytic processes Throughout Fundamentals of Industrial Catalytic Processes the information is illustrated with many case studies and problems This book is valuable to anyone wanting a clear account of industrial catalytic processes but is particularly useful to industrial and academic chemists and engineers and graduate working on catalysis This book also Covers fundamentals of catalytic processes including chemistry catalyst preparation properties and reaction engineering Addresses heterogeneous catalytic processes employed by industry Provides detailed data on existing catalysts and catalytic reactions process design and chemical engineering Covers catalysts used in fuel cells

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