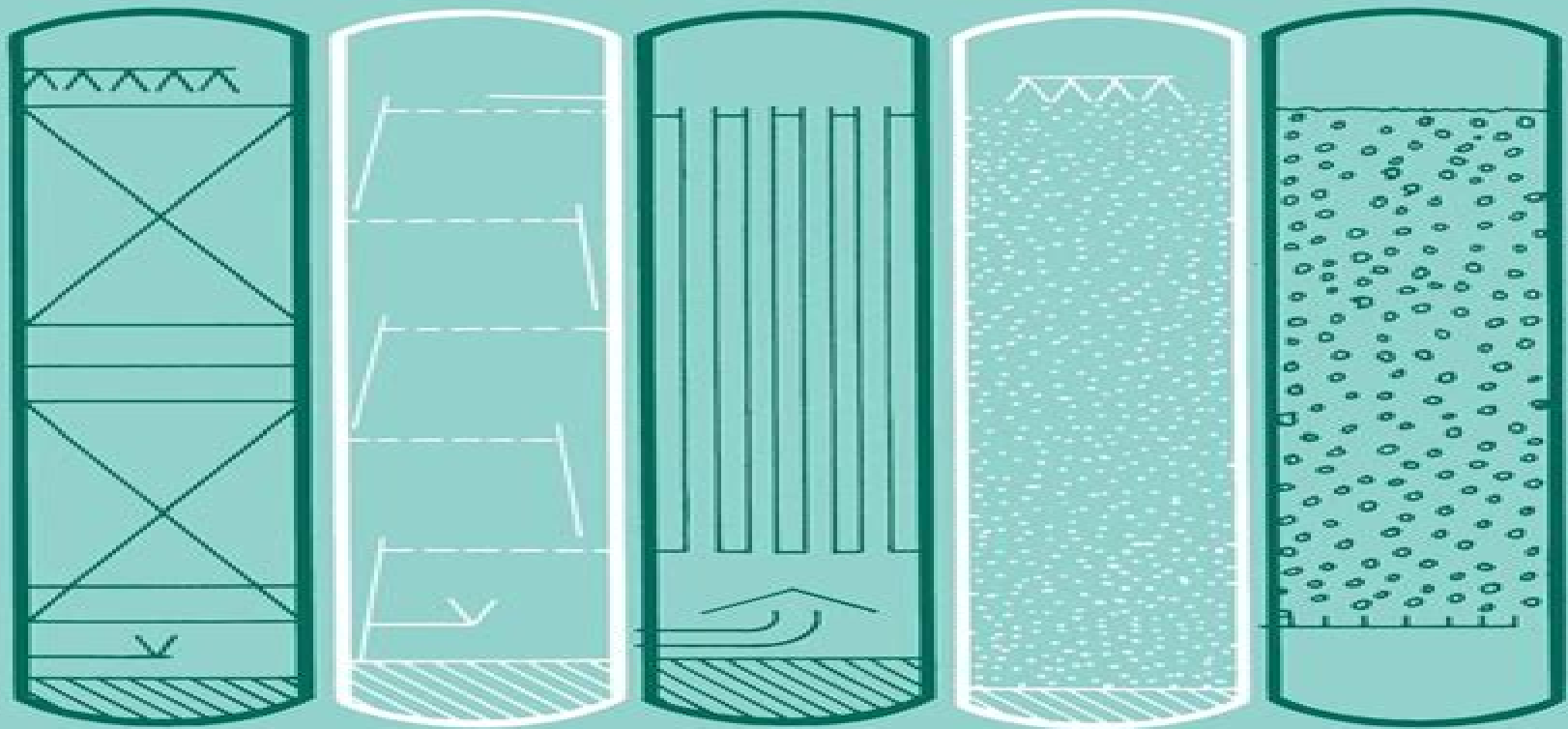


Chemical Reactor Design and Operation



*K. R. Westerterp, W. P. M. van Swaaij and
A. A. C. M. Beenackers*

Chemical Reactor Design And Operation 2e

Jianjun Gao



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Chemical Reaction Engineering and Reactor Technology Tapio O. Salmi, Jyri-Pekka Mikkola, Johan P. Warna, 2011-07-01

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 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 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 Chemical Reaction Engineering and Reactor Technology, Second Edition Jyri-Pekka Mikkola, Tapio O. Salmi, 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

Elements of Chemical Reactor Design and Operation H. Kramers, K. R. Westerterp, 1963

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Principles of Chemical Reactor Analysis and Design Uzi Mann, 2009-03-30 An innovative approach that helps students move from the classroom to professional practice This text 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 Principles of Chemical Reactor Analysis and Design prepares readers to design and operate real chemical reactors and to troubleshoot any technical problems that may arise The text s unified methodology is applicable to both single and multiple chemical reactions to all reactor configurations and to all forms of rate expression This text also Describes reactor operations in terms of dimensionless design equations generating dimensionless operating curves that depict the progress of individual chemical reactions the composition of species and the temperature Combines all parameters that affect heat transfer into a single dimensionless number that can be estimated a priori Accounts for all variations in the heat capacity of the reacting fluid Develops a complete framework for economic based optimization of reactor operations Problems at the end of each chapter are categorized by their level of difficulty from one to four giving readers the opportunity to test and develop their skills Graduate and advanced undergraduate chemical engineering students will find that this text s unified approach better prepares them for professional practice by teaching them the actual skills needed to design and analyze chemical reactors

Chemical Reactor Analysis and Design Gilbert F. Froment, Kenneth B. Bischoff, 1990-01-16 This is the Second Edition of the standard text on chemical reaction engineering beginning with basic definitions and fundamental principles and continuing all the way to practical applications emphasizing real world aspects of industrial practice The two main sections cover applied or engineering kinetics reactor analysis and design Includes updated coverage of computer modeling methods and many new worked examples Most of the examples use real kinetic data from processes of industrial importance

Chemical Reactor Analysis and Applications for the Practicing Engineer Louis Theodore, 2012-09-11 This books format follows an applications oriented text and serves as a training tool for individuals in education and industry involved directly or indirectly with chemical reactors It addresses both technical and calculational problems in this field While this text can be complimented with texts on chemical kinetics and or reactor design it also stands alone as a self teaching aid The first part serves as an introduction to the subject title and contains chapters dealing with history process variables basic operations kinetic principles and conversion variables The second part of the book addresses traditional reactor analysis chapter topics include batch CSTRs tubular flow reactors plus a comparison of these classes of reactors Part 3 keys on reactor applications that include non ideal reactors thermal effects interpretation of kinetic data and reactor design The book concludes with other reactor topics chapter titles include catalysis catalytic reactors other reactions and reactors and ABET related topics An extensive Appendix is also included

Chemical Reaction Engineering, II Hugh M. Hulburt, American Chemical Society, 1974

Chemical and Biochemical Reactors and Process Control John Metcalfe Coulson, John Francis Richardson, 1994-01-15 The publication of the third edition of Chemical Engineering Volume marks the completion of the re orientation of the basic material contained in the first three volumes of the series Volume 3 is devoted to reaction engineering both chemical and biochemical together with measurement and process control This text is designed for

students graduate and postgraduate of chemical engineering **Oil & Gas Science and Technology** ,2006 **Chemical Reactor Design and Control** William L. Luyben,2007-07-16 Chemical Reactor Design and Control uses process simulators like Matlab Aspen Plus and Aspen Dynamics to study the design of chemical reactors and their dynamic control There are numerous books that focus on steady state reactor design There are no books that consider practical control systems for real industrial reactors This unique reference addresses the simultaneous design and control of chemical reactors After a discussion of reactor basics it Covers three types of classical reactors continuous stirred tank CSTR batch and tubular plug flow Emphasizes temperature control and the critical impact of steady state design on the dynamics and stability of reactors Covers chemical reactors and control problems in a plantwide environment Incorporates numerous tables and shows step by step calculations with equations Discusses how to use process simulators to address diverse issues and types of operations This is a practical reference for chemical engineering professionals in the process industries professionals who work with chemical reactors and students in undergraduate and graduate reactor design process control and plant design courses

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