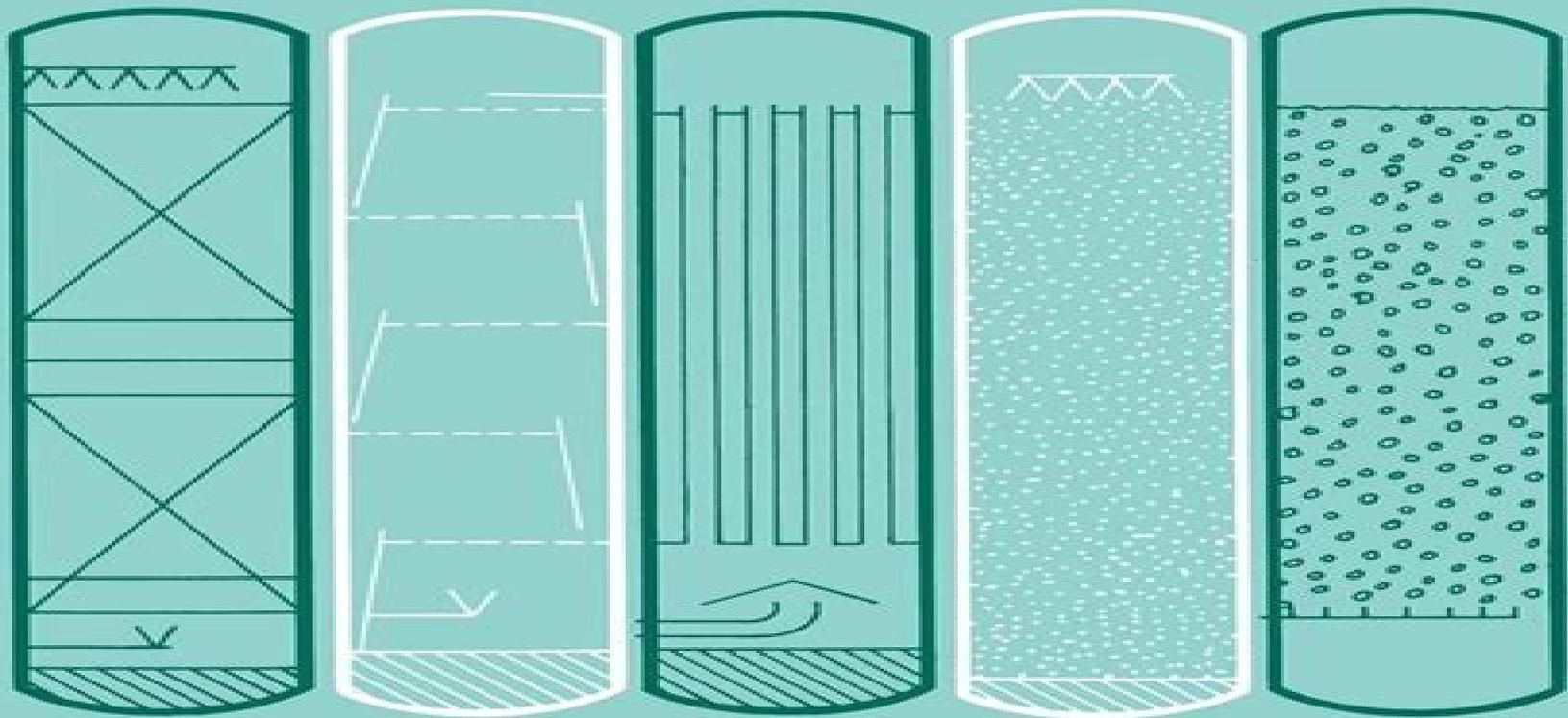


Chemical Reactor Design and Operation



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

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Chemical Reactor Design and Operation K. R. Westerterp, W. P. M. van Swaaij, A. A. C. M. Beenackers, 1984 Chemical Reactor Design Juan A. Conesa, 2019-09-04 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 multiphase 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 *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 Chemical Process Equipment - Selection and Design (Revised 2nd Edition) James R. Couper, W Roy Penney, James R. Fair PhD, 2009-08-11 A facility is only as efficient and profitable as the equipment that is in it. This highly influential book is a powerful resource for chemical process or plant engineers who need to select, design or configure plant successfully and profitably. It includes updated information on design methods for all standard equipment with an emphasis on real world process design and performance. The comprehensive and influential guide to the selection and design of a wide range of chemical process equipment used by engineers globally. Copious examples of successful applications with supporting schematics and data to illustrate the functioning and performance of equipment. Revised edition new material includes updated equipment cost data, liquid solid and solid systems and the latest information on membrane separation technology. Provides equipment rating forms and manufacturers data, worked examples, valuable shortcut methods, rules of thumb and equipment rating forms to demonstrate and support the design process. Heavily illustrated with many line drawings and schematics to aid understanding, graphs and tables to illustrate performance data.

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

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

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 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

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,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 **Dynamics and Control of Chemical Reactors, Distillation Columns and Batch Processes**,1995 **An Introduction to Chemical Engineering Kinetics and Reactor Design** Charles G. Hill,1977-10-13 A comprehensive introduction to chemical engineering kinetics Providing an introduction to chemical engineering kinetics and describing the empirical approaches that have successfully helped engineers describe reacting systems An Introduction to Chemical Engineering Kinetics Reactor Design is an excellent resource for students of chemical engineering Truly introductory in nature the text emphasizes those aspects of chemical kinetics and material and energy balances that form the broad foundation for understanding reactor design For those seeking an introduction to the subject the book provides a firm and lasting foundation for continuing study and practice **Announcements** West Virginia University,1961 **Chemical Engineering Progress**,1980 **West Africa**,1985 **General Catalog Issue** University of Washington,1969 **Technical Books in Print**,1966

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