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Chemical Reactor Design Chemical Industries

John B. Butt



Chemical Reactor Design Chemical Industries:

Chemical Reactor Design Peter Harriott, 2002-11-06 Featuring case studies and worked examples that illustrate key concepts in the text this book contains guidelines for scaleup of laboratory and pilot plant results methods to derive the correct reaction order activation energy or kinetic model from laboratory tests and theories correlations and practical examples for 2 and 3 phase reaction systems including bubble columns slurry reactions trickle bed reactors and fluidized beds A comprehensive reference the book offers strategies to analyze and interpret kinetic data for homogeneous and heterogeneous reactions practical design procedures rate equations and analytical models for improved reactor performance

Chemical Reaction and Reactor Design Hiroo Tominaga, Masakazu Tamaki, 1999-01-07 Chemical Reaction and Reactor Design begins with a discussion of chemical reactions emphasizing chemical equilibrium and rate of reaction and proceeds to the theory and practice of heat and mass transfer and important considerations in the design of chemical reactors The final section of the book provides detailed case studies from the chemical industry covering the six chemical processes naphtha cracking steam reforming epoxy resin production hydro treating fluid catalytic cracking and flue gas desulfurization

[Chemical Reactor Design and Operation](#) K. R. Westerterp, W. P. M. van Swaaij, A. A. C. M. Beenackers, 1984

Reaction Kinetics and Reactor Design, Second Edition John B. Butt, 2000-01-03 This text combines a description of the origin and use of fundamental chemical kinetics through an assessment of realistic reactor problems with an expanded discussion of kinetics and its relation to chemical thermodynamics It provides exercises open ended situations drawing on creative thinking and worked out examples A solutions manual is also available to instructors

[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

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

Reactor Design for Chemical Engineers J. M. Winterbottom, Michael King, 1999-02-05 Intended primarily for undergraduate chemical engineering students this book also includes material which bridges the gap between undergraduate and graduate requirements The introduction contains a listing of the principal types of reactors employed in the chemical industry with diagrams and examples of their use There is then a brief exploration of the concepts employed in later sections for modelling and sizing reactors followed by basic information on stoichiometry and thermodynamics and the kinetics of homogeneous and catalyzed reactions Subsequent chapters are devoted to reactor sizing and modelling in some simple situations and more detailed coverage of the design and operation of the principal reactor types

Handbook of Chemical Reactor Design, Optimization, and Scaleup Bruce Nauman, 2001-10-21 THE MODERN GUIDE TO CHEMICAL REACTORS In the best professional sourcebook on chemical reactors ever written world class expert Bruce Nauman provides too information and hands on expertise to make important engineering tasks and decisions easier Clearly and in depth CHEMICAL REACTOR DESIGN OPTIMIZATION AND SCALEUP provides Up to date information to help chemical and process engineers save time money and materials Decision aiding coverage of every aspect of selection design factors and parameters optimization and scaleup A convenient source of explained formulas principles and data Numerous detailed examples Worked mathematical solutions The latest information on reactor design for biochemicals and polymers as well as other newer and standard substances

DESIGN AND SPECIFY CHEMICAL REACTORS CONFIDENTLY WITH STATE OF THE ART SKILLS

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

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 Design, Optimization, and Scaleup E. Bruce Nauman,2008-08-06 The classic reference now expanded and updated Chemical Reactor Design Optimization and Scaleup is the authoritative sourcebook on chemical reactors This new Second Edition consolidates the latest information on current optimization and scaleup methodologies numerical methods and biochemical and polymer reactions It provides the comprehensive tools and information to help readers design and specify chemical reactors confidently with state of the art skills This authoritative guide Covers the fundamentals and principles of chemical reactor design along with advanced topics and applications Presents techniques for dealing with varying physical properties in reactors of all types and purposes Includes a completely new chapter on meso micro and nano scale reactors that addresses such topics as axial diffusion in micro scale reactors and self assembly of nano scale structures Explains the method of false transients a numerical solution technique Includes suggestions for further reading problems and when appropriate scaleup or scaledown considerations at the end of each chapter to illustrate industrial applications Serves as a ready reference for explained formulas principles and data This is the definitive hands on

reference for practicing professionals and an excellent textbook for courses in chemical reactor design It is an essential resource for chemical engineers in the process industries including petrochemicals biochemicals microelectronics and water treatment

Chemical Reactor Design in Practice L. M. Rose,1981-01-01 When this book first appeared in 1981 a reviewer writing in Chemistry in Britain commented I enjoyed reading this book and would recommend it to teachers of the subject The book is now available in paperback at less than half the price of the hardcover edition thus bringing it within the reach of students Intended as an extension to the normal introductory reactor engineering course the text is based on a lecture course in practical reactor design and aims to teach students how to design and specify reactors or to know the advanced techniques by which this is done Reactor design is concerned with many aspects Hence the text touches on a multitude of disciplines statistics economics optimization control and safety as well as those subjects traditionally thought of as reactor design The book includes a set of interactive computer based exercises which enable the student to discover for himself the major characteristics of the various reactor types

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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

Chemical Reactor Analysis and Design Gilbert F. Froment,Kenneth B. Bischoff,Juray De Wilde,2011-08-24 This is the Third 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 text 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 Design for Process Plants: Case studies and design data Howard F. Rase,1977

Chemical Reactor Development D. Thoenes,1994-07-31

Chemical Reactor Development is written primarily for chemists and chemical engineers who are concerned with the development of a chemical synthesis from the laboratory bench scale where the first successful experiments are performed to the design desk where the first commercial reactor is conceived It is also written for those chemists and chemical engineers who are concerned with the further development of a chemical process with the objective of enhancing the performance of an existing industrial plant as well as for students of chemistry and chemical engineering In Part I the how and the why of chemical reaction engineering are explained particularly for those who are not familiar with this area Part II deals with the effects of a number of physical phenomena on the outcome of chemical reactions such as micro and meso mixing and residence time distribution mass transfer between two phases and the formation of another phase such as in precipitations These scale dependent effects are not only important in view of the conversion of chemical reactions but also with regard to the selectivity and in the case of solid products to their morphology In Part III some applications are treated in a general way including organic syntheses the conversion and formation of inorganic solids catalytic processes and polymerizations The last chapter gives a review of the importance of the selectivity for product quality and for the purity of waste streams For research chemists and chemical engineers whose work involves chemical reaction engineering The book is also suitable as a supplementary graduate text

Chemical Reactor Design E. B. Nauman,1987

Introduction to Chemical Reactor Analysis R.E. Hayes,J.P. Mmbaga,2012-10-05

Introduction to Chemical Reactor Analysis Second Edition introduces the basic concepts of chemical reactor analysis and design an important foundation for understanding chemical reactors which play a central role in most industrial chemical plants The scope of the second edition has been significantly enhanced and the content reorganized for im

Chemical Reactors Pierre Trambouze,Jean-Paul Euzen,2004

This in depth revision provides a summary of current knowledge updated based on the most recent literature in the field The reader will find recommendations on the choice of correlations to apply depending on the case and useful references to the original documents on industrial processes This practical user s guide is designed for engineers in industries involved with the problems of chemical transformations and for professors and students of process engineering Whether the reader is working in a design department an engineering firm or an R D department or is managing production plants he will find material here that is directly applicable to the solution of his problems

Contents 1 Definitions and fundamental concepts 2 Single phase reactors 3 General characteristics of reactors with two fluid phases 4 Experimental data and correlations for gas liquid reactors 5 Experimental data and correlations for liquid liquid reactors 6 General characteristics of heterogeneous catalytic reactors 7 Reactors employing a

fluid phase and a catalytic solid phase fixed bed moving bed fluidized bed 8 Three phase reactors gas liquid and catalytic solid 9 Case studies 10 Multifunctional reactors and future developments General nomenclature Index Reactor and Process Design in Sustainable Energy Technology Fan Shi, 2014-07-28 Reactor Process Design in Sustainable Energy Technology compiles and explains current developments in reactor and process design in sustainable energy technologies including optimization and scale up methodologies and numerical methods Sustainable energy technologies that require more efficient means of converting and utilizing energy can help provide for burgeoning global energy demand while reducing anthropogenic carbon dioxide emissions associated with energy production The book contributed by an international team of academic and industry experts in the field brings numerous reactor design cases to readers based on their valuable experience from lab R D scale to industry levels It is the first to emphasize reactor engineering in sustainable energy technology discussing design It provides comprehensive tools and information to help engineers and energy professionals learn design and specify chemical reactors and processes confidently Emphasis on reactor engineering in sustainable energy technology Up to date overview of the latest reaction engineering techniques in sustainable energy topics Expert accounts of reactor types processing and optimization Figures and tables designed to comprehensively present concepts and procedures Hundreds of citations drawing on many most recent and previously published works on the subject

Unveiling the Magic of Words: A Review of "**Chemical Reactor Design Chemical Industries**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Chemical Reactor Design Chemical Industries**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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