



CHEMICAL REACTOR ANALYSIS AND DESIGN

SECOND EDITION

GILBERT F. FROMENT
KENNETH B. BISCHOFF



WILEY SERIES IN CHEMICAL ENGINEERING

Chemical Reactor Analysis And Design Wiley Series In Chemical Engineering

D G Peacock, J.F. Richardson



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Chemical Reactor Analysis and Design Gilbert F. Froment, Kenneth B. Bischoff, 1990 **Chemical Reactor Analysis and Applications for the Practicing Engineer** Louis Theodore, 2012-09-11 This book's 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.

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.

Introduction to Chemical Reactor Analysis R.E. Hayes, 2020-12-17 This book provides an introduction to the basic concepts of chemical reactor analysis and design. It is intended for both the senior level undergraduate student in chemical engineering and the working professional who may require an understanding of the basics of this subject.

Coulson and Richardson's Chemical Engineering R. Ravi, R. Vinu, S. N. Gummadi, 2017-09-26 Coulson and Richardson's Chemical

Engineering Volume 3A Chemical and Biochemical Reactors and Reaction Engineering Fourth Edition covers reactor design flow modelling gas liquid and gas solid reactions and reactors Captures content converted from textbooks into fully revised reference material Includes content ranging from foundational through technical Features emerging applications numerical methods and computational tools Chemical Engineering, Volume 3 D G Peacock,J.F. Richardson,2012-12-02 The publication of the third edition of Chemical Engineering Volume 3 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 **Chemical Engineering Design** Gavin Towler,R K Sinnott,2012-01-13 Bottom line For a holistic view of chemical engineering design this book provides as much if not more than any other book available on the topic Extract from Chemical Engineering Resources review Chemical Engineering Design is a complete course text for students of chemical engineering Written for the Senior Design Course and also suitable for introduction to chemical engineering courses it covers the basics of unit operations and the latest aspects of process design equipment selection plant and operating economics safety and loss prevention It is a textbook that students will want to keep through their undergraduate education and on into their professional lives Chemical Engineering Design Ray Sinnott,Gavin Towler,2019-05-26 Chemical Engineering Design SI Edition is one of the best known and most widely used textbooks available for students of chemical engineering The enduring hallmarks of this classic book are its scope and practical emphasis which make it particularly popular with instructors and students who appreciate its relevance and clarity This new edition provides coverage of the latest aspects of process design operations safety loss prevention equipment selection and much more including updates on plant and equipment costs regulations and technical standards Includes new content covering food pharmaceutical and biological processes and the unit operations commonly used Features expanded coverage on the design of reactors Provides updates on plant and equipment costs regulations and technical standards Integrates coverage with Honeywell s UniSim software for process design and simulation Includes online access to Engineering s Cleopatra cost estimating software **Introduction to Chemical Reactor Analysis, Second Edition** 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 improved pedagogical value containing sufficient material to be used as a text for an undergraduate level two term course This edition also contains five new chapters on catalytic reaction engineering Written so that newcomers to the field can easily progress through the topics this text provides sufficient knowledge for readers to perform most of the common reaction engineering calculations required for a typical practicing engineer The authors introduce kinetics reactor types and

commonly used terms in the first chapter Subsequent chapters cover a review of chemical engineering thermodynamics mole balances in ideal reactors for three common reactor types energy balances in ideal reactors and chemical reaction kinetics The text also presents an introduction to nonideal reactors and explores kinetics and reactors in catalytic systems The book assumes that readers have some knowledge of thermodynamics numerical methods heat transfer and fluid flow The authors include an appendix for numerical methods which are essential to solving most realistic problems in chemical reaction engineering They also provide numerous worked examples and additional problems in each chapter Given the significant number of chemical engineers involved in chemical process plant operation at some point in their careers this book offers essential training for interpreting chemical reactor performance and improving reactor operation What's New in This Edition Five new chapters on catalytic reaction engineering including various catalytic reactions and kinetics transport processes and experimental methods Expanded coverage of adsorption Additional worked problems Reorganized material

Encyclopedia of Chemical Processing Sunggyu Lee, 2006 Collecting information of vital interest to chemical polymer mechanical electrical and civil engineers as well as chemists and chemical researchers this Encyclopedia supplies nearly 350 articles on current design engineering science and manufacturing practices offering expertly written articles on technologies at the forefront of the field to maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques *Heterogeneous Catalysis* Abdullah A. Shaikh, 2020-08-10 This textbook is a perfect introduction to heterogeneous catalysis focusing on the industrial implementation It is written in a comprehensible manner using language that is easy accessible and provides problems to practice *Flow Chemistry - Applications* Ferenc Darvas, Volker Hessel, György Dorman, 2014-11-18 Flow Chemistry fills the gap in graduate education by covering chemistry and reaction principles along with current practice including examples of relevant commercial reaction separation automation and analytical equipment The Editors of Flow Chemistry are commended for having taken the initiative to bring together experts from the field to provide a comprehensive treatment of fundamental and practical considerations underlying flow chemistry It promises to become a useful study text and as well as reference for the graduate students and practitioners of flow chemistry Professor Klavs Jensen Massachusetts Institute of Technology USA Broader theoretical insight in driving a chemical reaction automatically opens the window towards new technologies particularly to flow chemistry This emerging concept promotes the transformation of present day's organic processes into a more rapid continuous set of synthesis operations more compatible with the envisioned sustainable world These two volumes Fundamentals and Applications provide both the theoretical foundation as well as the practical aspects **Developing An Industrial Chemical Process** Joseph Mizrahi, 2002-06-19 The development and implementation of a new chemical process involves much more than chemistry materials and equipment It is a very complex endeavor and its success depends on the effective interactions and organization of professionals in many different positions scientists chemical engineers managers attorneys economists and

specialists *Process Technology* André B. de Haan, Johan T. Padding, 2022-03-07 The book provides a general overview about process technology It focuses on the structure and development of production processes main technological operations and some important aspects of process economics For the technological operations the authors emphasize operating principles reasons for application and available industrial equipment **Re-Engineering the Chemical Processing Plant**

Andrzej Stankiewicz, Jacob A. Moulijn, 2018-12-14 The first guide to compile current research and frontline developments in the science of process intensification PI Re Engineering the Chemical Processing Plant illustrates the design integration and application of PI principles and structures for the development and optimization of chemical and industrial plants This volume updates professionals on emerging PI equipment and methodologies to promote technological advances and operational efficacy in chemical biochemical and engineering environments and presents clear examples illustrating the implementation and application of specific process intensifying equipment and methods in various commercial arenas

Catalytic Reactors Basudeb Saha, 2015-12-18 Catalytic Reactors presents several key aspects of reactor design in Chemical and Process Engineering Starting with the fundamental science across a broad interdisciplinary field this graduate level textbook offers a concise overview on reactor and process design for students scientists and practitioners new to the field This book aims to collate into a comprehensive and well informed work of leading researchers from north America western Europe and south east Asia The editor and international experts discuss state of the art applications of multifunctional reactors biocatalytic membrane reactors micro flow reactors industrial catalytic reactors micro trickle bed reactors and multiphase catalytic reactors The use of catalytic reactor technology is essential for the economic viability of the chemical manufacturing industry The importance of Chemical and Process Engineering and efficient design of reactors are another focus of the book Especially the combination of advantages from both catalysis and chemical reaction technology for optimization and intensification as essential factors in the future development of reactors and processes are discussed Furthermore options that can drastically influence reaction processes e g choice of catalysts alternative reaction pathways mass and heat transfer effects flow regimes and inherent design of catalytic reactors are reviewed in detail Focuses on the state of the art applications of catalytic reactors and optimization in the design and operation of industrial catalytic reactors Insights into transfer of knowledge from laboratory science to industry For students and researchers in Chemical and Mechanical Engineering Chemistry Industrial Catalysis and practising Engineers **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

24th European Symposium on Computer Aided Process Engineering

,2014-06-20 The 24th European Symposium on Computer Aided Process Engineering creates an international forum where scientific and industrial contributions of computer aided techniques are presented with applications in process modeling and simulation process synthesis and design operation and process optimization The organizers have broadened the boundaries of Process Systems Engineering by inviting contributions at different scales of modeling and demonstrating vertical and horizontal integration Contributions range from applications at the molecular level to the strategic level of the supply chain and sustainable development They cover major classical themes at the same time exploring a new range of applications that address the production of renewable forms of energy environmental footprints and sustainable use of resources and water

Disorder and Mixing E. Guyon,J.P. Nadal,Yves Pomeau,2012-12-06 CARGESE INSTITUTE ON DISORDER AND MIXING

Convection diffusion and reaction are the three basic mechanisms in physico chemical hydrodynamics and chemical engineering Both convective and diffusive processes are strongly influenced by the effect of disorder of granular matter in porous media suspensions fluidized beds or and by the randomness caused in turbulent flow field This book has been initiated by a NATO summer institute held in Cargese Corsica FRANCE from June 15 th to 27 th 1987 Its aim was to associate statistical physicists fluid mechanics and specialists of chemical engineering on the problems of the relation between disorder and mixing and in this respect this is a premiere This book is made of chapters based on lectures given in the meeting However we have paid a considerable attention to harmonize the contents and styles of chapters made by scientists trained in different communities and using different languages and techniques to describe similar problems The Prelude by the editors of the book introduces the different points and is a biased view of some of the important and most active aspects of the subjects developed We wish to thank all contributors and students of the institute who gave the style of the present interdisciplinary approach We also greatly thank Elisabeth Charlaix who has shared with us the scientific and practical organisation of the institute and Marie France Hanseler for her technical support

Structured Catalysts and Reactors Andrzej Cybulski,Jacob A. Moulijn,2005-11-02 Interest in structured catalysts is steadily increasing due to the already proven as well as potential advantages of these catalysts Updating the comprehensive coverage of the first edition published in 1998 with the latest science and applications Structured Catalysts and Reactors Second Edition gives detailed information on all aspects of structured catalysts and reactors including materials mass transfer selectivity activity and

stability catalyst preparation design and characterization process development modeling and optimization reactor design and operation costs and considerations The book first examines how monolithic catalysts are used to clean exhaust gas from gasoline engines treat industrial off gases burn fuels in commercial settings and synthesize chemicals in two and three phase processes It discusses configurations microstructure physical properties and manufacture of ceramic and metallic monoliths before directing its focus to arranged catalysts and structured packings in terms of mass transfer The book then explores catalytically active membranes and filters featuring metallic membranes permeation mechanisms preparation and modeling commercial membranes and the latest applications such as zeolitic membranes Finally several chapters present techniques for incorporating catalytic species into the structured catalyst support and controlling catalyst nanoporosity This book conveys the scientific as well as economic advantages of using these unconventional catalytic techniques With over 1500 references tables drawings and photographs as well as in depth discussions and a new approach to catalytic processes Structured Catalysts and Reactors Second Edition is an essential reference for anyone working with or studying catalysis

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