Tapio Salmi, Johan Wärnå, José Rafael Hernández Carucci, César A. de Araújo Filho

CHEMICAL REACTION ENGINEERING

A COMPUTER-AIDED APPROACH

2ND EDITION



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Modeling of Chemical Kinetics and Reactor Design A. Kayode Coker,2001-08-14 Selecting the best type of reactor for any particular chemical reaction taking into consideration safety hazard analysis scale up and many other factors is essential to any industrial problem An understanding of chemical reaction kinetics and the design of chemical reactors is key to the success of the of the chemist and the chemical engineer in such an endeavor This valuable reference volume conveys a basic understanding of chemical reactor design methodologies incorporating control hazard analysis and other topics not covered in similar texts In addition to covering fluid mixing the treatment of wastewater and chemical reactor modeling the

author includes sections on safety in chemical reaction and scale up two topics that are often neglected or overlooked As a real world introduction to the modeling of chemical kinetics and reactor design the author includes a case study on ammonia synthesis that is integrated throughout the text The text also features an accompanying CD which contains computer programs developed to solve modeling problems using numerical methods Students chemists technologists and chemical engineers will all benefit from this comprehensive volume Shows readers how to select the best reactor design hazard analysis and safety in design methodologyFeatures computer programs developed to solve modeling problems using numerical methods Biological Reaction Engineering Elmar Heinzle, Irving J. Dunn, John Ingham, Jiří E. Přenosil, 2021-07-06 This practical book presents the modeling of dynamic biological engineering processes in a readily comprehensible manner using the unique combination of simplified fundamental theory and direct hands on computer simulation The mathematics is kept to a minimum and yet the 60 examples illustrate almost every aspect of biological engineering science with each one described in detail including the model equations. The programs are written in the modern user friendly simulation language Berkeley Madonna which can be run on both Windows PC and Power Macintosh computers Madonna solves models comprising many ordinary differential equations using very simple programming including arrays It is so powerful that the model parameters may be defined as sliders which allow the effect of their change on the model behavior to be seen almost immediately Data may be included for curve fitting and sensitivity or multiple runs may be performed The results can be viewed simultaneously on multiple graph windows or by using overlays The examples can be varied to fit any real situation and the suggested exercises provide practical guidance. The extensive teaching experience of the authors is reflected in this well balanced presentation which is suitable for the teacher student biochemist or the Applied Kinetics and Chemical Reaction Engineering Robert L. Gorring, Vern W. Weekman, 1967 engineer

Biochemical Reaction Engineering Kaustubha Mohanty, Soumya Sasmal, 2025-01-29 This textbook comprehensively covers fundamental and advanced aspects of biochemical engineering along with MATLAB codes It comprehensively covers important topics including enzyme catalyzed reaction kinetics catalytic antibodies and non protein biomolecules as catalysts process flow diagram PFD piping instrumentation diagram P ID wastewater treatment processes design of fermenters and mass and energy balance Pedagogical features including solved problems and unsolved exercises are interspersed throughout the text for better understanding This book Provides solid foundation and understanding of the fundamental principles of mathematics science and engineering Explores tools for solving theoretical and open ended biochemical engineering problems Covers principles of downstream process and biochemical engineering principles with illustration and problems Discusses application of computer and programming in biochemical engineering Covers case studies for bioprocess plant design The textbook is primarily written for senior undergraduate and graduate students in the fields of chemical engineering biotechnology and food process engineering for courses on biochemical engineering bioprocess engineering

downstream processing 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

Multiphase Catalytic Reactors Zeynep Ilsen Önsan, Ahmet Kerim Avci, 2016-06-09 Provides a holistic approach to multiphase catalytic reactors from their modeling and design to their applications in industrial manufacturing of chemicals Covers theoretical aspects and examples of fixed bed fluidized bed trickle bed slurry monolith and microchannel reactors Includes chapters covering experimental techniques and practical guidelines for lab scale testing of multiphase reactors Includes mathematical content focused on design equations and empirical relationships characterizing different multiphase reactor types together with an assortment of computational tools Involves detailed coverage of multiphase reactor applications such as Fischer Tropsch synthesis fuel processing for fuel cells hydrotreating of oil fractions and biofuels processing **Annual Report to Congress** United States. Department of Energy, 1983 Biomedical Engineering Challenges Vincenzo Piemonte, Angelo Basile, Taichi Ito, Luigi Marrelli, 2018-04-23 An important resource that puts the focus on the chemical engineering aspects of biomedical engineering In the past 50 years remarkable achievements have been advanced in the fields of biomedical and chemical engineering With contributions from leading chemical engineers Biomedical Engineering Challenges reviews the recent research and discovery that sits at the interface of engineering and biology The authors explore the principles and practices that are applied to the ever expanding array of such new areas as gene therapy delivery biosensor design and the development of improved therapeutic compounds imaging agents and drug delivery vehicles Filled with illustrative case studies this important resource examines such important work as methods of

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