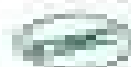


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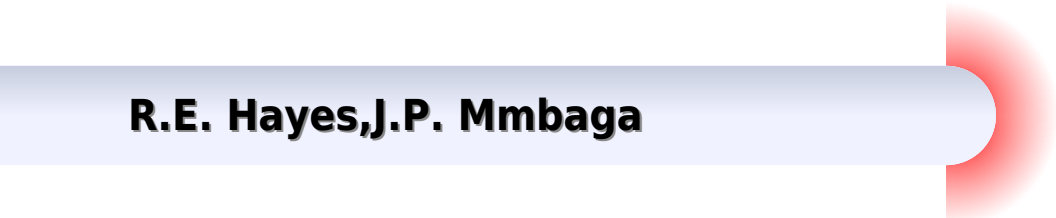
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Jyri-Pekka Mikkola
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R.E. Hayes, J.P. Mmbaga



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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

Encyclopaedia of Chemical Reaction Engineering and Reactor Technology ,2015 Chemical Engineering and Chemical Process Technology - Volume III Ryzhard Pohorecki,John Bridgwater,M. Molzahn. Rafiqul Gani and Crispulo Gallegos,2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit

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Fundamentals of Chemical Reaction Engineering Mark E. Davis, Robert J. Davis, 2003
 Chemistry in the hands of Engineers This mantra initiated and developed largely in the research programs of academic chemical engineers over the last few decades has now made its way into the core undergraduate curriculum in the form of a new Chemical Reaction Engineering textbook by Cal Tech's Mark E Davis and U VA's Robert J Davis Michael T Klein Rutgers University This book is an introduction to the quantitative treatment of chemical reaction engineering It is appropriate for a one semester undergraduate or first year graduate course The text provides a balanced approach first it covers both homogeneous and heterogeneous reacting systems second it covers both chemical reaction engineering and chemical reactor engineering Here's what reviewers have to say The Davis Davis book really brings out the strong coupling between chemical reactions and reactor design concepts in a pedagogical fashion Michael S Wong Rice University Great use of chemical reactions as teaching examples Michael S Wong Rice University The examples illustrations and vignettes given in the text are very well done and are of either fundamental or practical interest David F Cox Virginia Tech A primary motivation to use this text is the arrangement of the introductory material on kinetics The initial description of reactions and kinetics in Davis Davis appears prior to the introduction of reactor material balances David F Cox Virginia Tech Concise development and discussion of material Michael S Wong Rice University

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

Chemical Reactor Modeling Hugo A. Jakobsen, 2014-04-02 *Chemical Reactor Modeling* closes the gap between Chemical Reaction Engineering and Fluid Mechanics The second edition consists of two volumes Volume 1 Fundamentals Volume 2 Chemical Engineering Applications In volume 1 most of the fundamental theory is presented A few numerical model simulation application examples are given to elucidate the link between theory and applications In volume 2 the chemical reactor equipment to be modeled are described Several engineering models are introduced and discussed A survey of the frequently used numerical methods algorithms and schemes is provided A few practical engineering applications of the modeling tools are presented and discussed The working principles of several experimental techniques employed in order to get data for model validation are outlined The monograph is based on lectures regularly taught in the fourth and fifth years graduate courses in transport phenomena and chemical reactor modeling and in a post graduate course in modern reactor modeling at the Norwegian University of Science and Technology Department of Chemical Engineering Trondheim Norway The objective of the book is to present the fundamentals of the single fluid and multi fluid models for the analysis of single and multiphase reactive flows in chemical reactors with a chemical reactor engineering rather than mathematical bias Organized into 13 chapters it combines theoretical aspects and practical applications and covers some of the recent research in several areas of chemical reactor engineering This book contains a survey of the modern literature in the field of chemical reactor modeling

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