

Introduction to  
**Chemical  
Engineering  
Kinetics &  
Reactor Design**

*Second Edition*

Charles G. Hill, Jr.

Thatcher W. Root



WILEY

# An Introduction To Chemical Engineering Kinetics Reactor Design

**Tapio O. Salmi, Jyri-Pekka  
Mikkola, Johan P. Warna**



## **An Introduction To Chemical Engineering Kinetics Reactor Design:**

An Introduction to Chemical Engineering Kinetics & Reactor Design Charles G. Hill, *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

**Introduction to Chemical Engineering Kinetics and Reactor Design** Charles G. Hill, Thatcher W. Root, 2014-04-24 The Second Edition features new problems that engage readers in contemporary reactor design Highly praised by instructors students and chemical engineers Introduction to Chemical Engineering Kinetics Reactor Design has been extensively revised and updated in this Second Edition The text continues to offer a solid background in chemical reaction kinetics as well as in material and energy balances preparing readers with the foundation necessary for success in the design of chemical reactors Moreover it reflects not only the basic engineering science but also the mathematical tools used by today's engineers to solve problems associated with the design of chemical reactors Introduction to Chemical Engineering Kinetics Reactor Design enables readers to progressively build their knowledge and skills by applying the laws of conservation of mass and energy to increasingly more difficult challenges in reactor design The first one third of the text emphasizes general principles of chemical reaction kinetics setting the stage for the subsequent treatment of reactors intended to carry out homogeneous reactions heterogeneous catalytic reactions and biochemical transformations Topics include Thermodynamics of chemical reactions Determination of reaction rate expressions Elements of heterogeneous catalysis Basic concepts in reactor design and ideal reactor models Temperature and energy effects in chemical reactors Basic and applied aspects of biochemical transformations and bioreactors About 70% of the problems in this Second Edition are new These problems frequently based on articles culled from the research literature help readers develop a solid understanding of the material Many of these new problems also offer readers opportunities to use current software applications such as Mathcad and MATLAB By enabling readers to progressively build and apply their knowledge the Second Edition of Introduction to Chemical Engineering Kinetics Reactor Design remains a premier text for students in chemical engineering and a valuable resource for practicing engineers

**Introduction to Chemical Engineering Kinetics and Reactor Design** Charles G. Hill, Thatcher W. Root, 2014-06-09 An Introduction to Chemical Engineering Kinetics & Reactor Design P. R. Wycherley, 1977 *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

### **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

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Ronald W. Missen,Charles A. Mims,Bradley A. Saville,1999 Solving problems in chemical reaction engineering and kinetics is now easier than ever As students read through this text they ll find a comprehensive introductory treatment of reactors for single phase and multiphase systems that exposes them to a broad range of reactors and key design features They ll gain valuable insight on reaction kinetics in relation to chemical reactor design They will also utilize a special software package that helps them quickly solve systems of algebraic and differential equations and perform parameter estimation which gives them more time for analysis Key Features Thorough coverage is provided on the relevant principles of kinetics in order to develop better designs of chemical reactors E Z Solve software on CD ROM is included with the text By utilizing this software students can have more time to focus on the development of design models and on the interpretation of calculated results The software also facilitates exploration and discussion of realistic industrial design problems More than 500 worked examples and end of chapter problems are included to help students learn how to apply the theory to solve design problems A web site [www.wiley.com/college/missen](http://www.wiley.com/college/missen) provides additional resources including sample files demonstrations and a description of the E Z Solve software

### **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

An Introduction to Chemical Engineering Kinetics and Reactor Design Charles G. Hill,1977

*Reaction Kinetics and Reactor Design* 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

**Modeling of Chemical Kinetics and Reactor Design** A. Kayode Coker,2001-07-26 This reference conveys a basic understanding of chemical reactor design methodologies that incorporate both control and hazard analysis It demonstrates how to select the best reactor for any particular chemical reaction and how to estimate its size to determine the best operating conditions

**Chemical Reaction Engineering** Octave Levenspiel,1962

**Concepts of Chemical Engineering for Chemists** Stefaan Simons,2019-03-15 Based on a former popular course of the same title Concepts of Chemical Engineering for Chemists outlines the basic aspects of chemical engineering for chemistry professionals It clarifies the terminology used and explains the systems methodology approach to process design and operation for chemists with limited chemical engineering knowledge The book provides practical insights into all areas of chemical engineering with well explained worked examples and case studies The new edition contains a revised chapter on Process Analysis and two new chapters Process and Personal Safety and Systems Integration and Experimental Design the latter drawing together material covered in the previous chapters so that readers can design and test their own pilot process systems This book is a guide for chemists and other scientists who either work alongside chemical engineers or who are undertaking chemical engineering type projects and who wish to communicate with their colleagues and understand chemical engineering principles

**Perry's Chemical Engineers' Handbook** Robert H. Perry,Don W. Green,James O. Maloney,1997 Reference work for chemical and process engineers Newest developments advances achievements and methods in various fields

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. *Perry's Chemical Engineers' Handbook, Eighth Edition* Don W. Green, Robert H. Perry, 2007-11-13 Get Cutting Edge Coverage of All Chemical Engineering Topics from Fundamentals to the Latest Computer Applications. First published in 1934 Perry's Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data. Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications. Filled with over 700 detailed illustrations the Eighth Edition of Perry's Chemical Engineering Handbook features Comprehensive tables and charts for unit conversion. A greatly expanded section on physical and chemical data. New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories. Inside This Updated Chemical Engineering Guide Conversion Factors and Mathematical Symbols Physical and Chemical Data Mathematics Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control Process Economics Transport and Storage of Fluids Heat Transfer Equipment Psychrometry Evaporative Cooling and Solids Drying Distillation Gas Absorption and Gas Liquid System Design Liquid Liquid Extraction Operations and Equipment Adsorption and Ion Exchange Gas Solid Operations and Equipment Liquid Solid Operations and Equipment Solid Solid Operations and Equipment Size Reduction and Size Enlargement Handling of Bulk Solids and Packaging of Solids and Liquids Alternative Separation Processes And Many Other Topics **Green Chemical Engineering** S. Suresh, S. Sundaramoorthy, 2014-12-18 This book explores a balance between energy and material applied to chemical reactors with catalysis to achieve a given purpose. It includes the fundamentals of chemical reaction engineering and explains reactor design fundamentals. The book spans the full range from the fundamentals of kinetics and heterogeneous catalysis via modern experimental and theoretical results of model studies to their equivalent large scale industrial production processes. It also includes significant developments with recent research case studies and literature.

**Reaction Kinetics** Don W. Green, Robert H. Perry, 2007-10-26 Get Cutting Edge Coverage of All Chemical Engineering Topics from Fundamentals to the Latest Computer Applications First published in 1934 Perry's Chemical Engineers Handbook has equipped generations of engineers and chemists with an expert source of chemical engineering information and data Now updated to reflect the latest technology and processes of the new millennium the Eighth Edition of this classic guide provides unsurpassed coverage of every aspect of chemical engineering from fundamental principles to chemical processes and equipment to new computer applications Filled with over 700 detailed illustrations the Eighth Edition of Perry's Chemical Engineering Handbook features Comprehensive tables and charts for unit conversion A greatly expanded section on physical and chemical data New to this edition the latest advances in distillation liquid liquid extraction reactor modeling biological processes biochemical and membrane separation processes and chemical plant safety practices with accident case histories Inside This Updated Chemical Engineering Guide Conversion Factors and Mathematical Symbols Physical and Chemical Data Mathematics Thermodynamics Heat and Mass Transfer Fluid and Particle Dynamics Reaction Kinetics Process Control Process Economics Transport and Storage of Fluids Heat Transfer Equipment Psychrometry Evaporative Cooling and Solids Drying Distillation Gas Absorption and Gas Liquid System Design Liquid Liquid Extraction Operations and Equipment Adsorption and Ion Exchange Gas Solid Operations and Equipment Liquid Solid Operations and Equipment Solid Solid Operations and Equipment Size Reduction and Size Enlargement Handling of Bulk Solids and Packaging of Solids and Liquids Alternative Separation Processes And Many Other Topics **The Chemical Reactor Omnibook** Octave Levenspiel, 1989

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