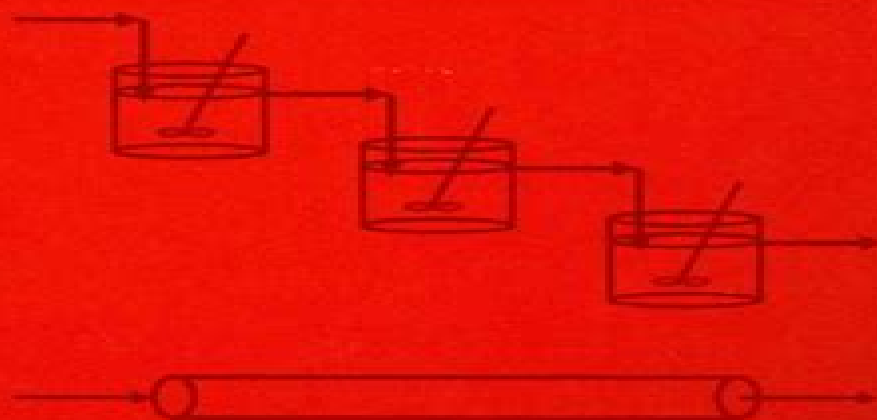


# Introduction to Chemical Engineering Kinetics & Reactor Design

*Second Edition*

Charles G. Hill, Jr.

Thatcher W. Root



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# Introduction To Chemical Engineering Kinetics And Reactor Design

**Charles G. Hill, Thatcher W. Root**



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**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, 2014-06-09 *An Introduction to Chemical Engineering Kinetics & Reactor Design* P. R. Wycherley, 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 available

**An Introduction to Chemical Engineering Kinetics and Reactor Design** Charles G. Hill,1977 Chemical Kinetics and Reactor Design Alfred Ronald Cooper,Godfrey Vaughan Jeffreys,1971 *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 improved readability

**Introduction to Chemical Reaction Engineering and Kinetics** 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 will 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 will 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

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

*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 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

### **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

**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

**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     *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 Reaction Engineering Octave Levenspiel, 1962     **Chemical Reactor Design** E. B. Nauman, 1987-02-13 Combines the concepts of chemical kinetics as taught in physical chemistry with those of transport phenomena taught in engineering courses fluid flow heat transfer and mass transfer with heavy emphasis on numerical methods and computation The reader is taught to use and understand modern computer aided design techniques CAD with emphasis on design optimization Includes sections on biochemical engineering electronic materials processing and multiphase reactions and provides a chapter on polymer reaction engineering     **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

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