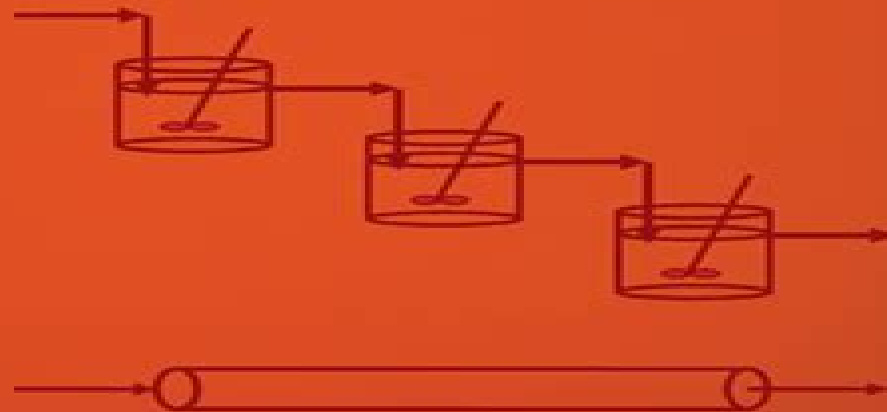


# Introduction to Chemical Engineering Kinetics & Reactor Design

*Second Edition*

Charles G. Hill, Jr.

Thatcher W. Root



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# An Introduction To Chemical Engineering Kinetics Reactor Design

**Mark E. Davis, Robert J. Davis**



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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

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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 use.

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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 Reaction Engineering and Kinetics** Ronald W. Missen, Charles A. Mims, Bradley A. Saville, 1999

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**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

**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

**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

**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

*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

**Lecture Notes in Chemical Engineering Kinetics and Chemical Reactor Design** Alex De Visscher, 2013-12-12 Chemical Engineering Kinetics and Reactor Design is one of the key courses in any academic Chemical Engineering studies and it is typically offered in the third year of a Chemical Engineering undergraduate program The main objective of this course is to learn to analyze the performance of chemical reactors and to design them This book covers all topics that are taught in an undergraduate course on Chemical Engineering Kinetics and Reactor Design Starting from the study of chemical

kinetics of homogeneous noncatalytic systems the book moves on to heterogeneous catalytic kinetics enzymatic kinetics and other complex systems Armed with this knowledge the student is taught how to describe batch reactors continuous stirred tank reactors and plug flow reactors The book is concluded with a chapter on the determination of reaction kinetics from experimental data and a chapter introducing advanced reactor design While analytical solutions to reactor problems are discussed whenever they are relevant the main focus is on numerical reactor models All models are freely available either as Matlab code or as an Excel file on the series website that can be found at <http://www.lecturenotesonline.com>

*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 UVA'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 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 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

**Chemical Reaction Engineering** Octave Levenspiel, 1962

**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 Kinetics and Reactor Design Alfred Ronald Cooper, Godfrey Vaughan Jeffreys, 1971

Fundamentals of Chemical Reactor Engineering Timur Dogu, Gulsen Dogu, 2021-10-07 FUNDAMENTALS OF CHEMICAL REACTOR ENGINEERING A comprehensive introduction to chemical reactor engineering from an industrial perspective In Fundamentals of Chemical Reactor Engineering A Multi Scale Approach a distinguished team of academics delivers a thorough introduction to foundational concepts in chemical reactor engineering It offers readers the tools they need to develop a firm grasp of the kinetics and thermodynamics of reactions hydrodynamics transport processes and heat and mass transfer resistances in a chemical reactor This textbook describes the interaction of reacting molecules on the molecular scale and uses real world examples to illustrate the principles of chemical reactor analysis and heterogeneous catalysis at every scale It includes a strong focus on

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