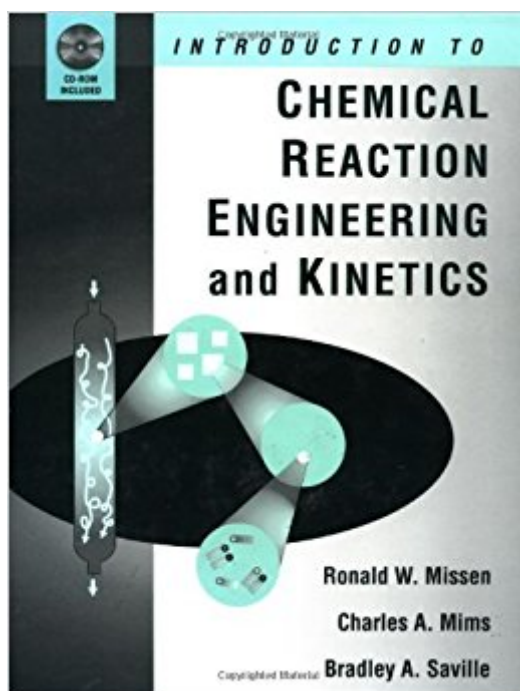


The book was found

# Introduction To Chemical Reaction Engineering And Kinetics



## Synopsis

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/misss](http://www.wiley.com/college/misss), provides additional resources including sample files, demonstrations, and a description of the E-Z Solve software.

## Book Information

Paperback: 700 pages

Publisher: Wiley (December 17, 1998)

Language: English

ISBN-10: 0471163392

ISBN-13: 978-0471163398

Product Dimensions: 8.4 x 1.2 x 10.4 inches

Shipping Weight: 3.4 pounds

Average Customer Review: 3.0 out of 5 stars 1 customer review

Best Sellers Rank: #3,623,211 in Books (See Top 100 in Books) #35 in Books > Science & Math > Chemistry > Organic > Reactions #2374 in Books > Textbooks > Engineering > Chemical Engineering #4652 in Books > Engineering & Transportation > Engineering > Chemical

## Customer Reviews

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.

RONALD W. MISSEN is Professor Emeritus (Chemical Engineering) at the University of Toronto. He received his B.Sc. and M.Sc. in chemical engineering from Queen's University, Kingston, Ontario, and his Ph.D. in physical chemistry from the University of Cambridge, England. He is the co-author of *Chemical Reaction Equilibrium Analysis*, and has authored or co-authored about 50 research articles. He is a fellow of the Chemical Institute of Canada and the Canadian Society for Chemical Engineering, and a member of the American Institute of Chemical Engineers and Professional Engineers Ontario. CHARLES A. MIMS is a Professor of Chemical Engineering and Applied Chemistry at the University of Toronto. He earned his B.Sc. in chemistry at the University of Texas, Austin, and his Ph.D. in physical chemistry at the University of California, Berkeley. He has 15 years of industrial research experience at Exxon, is the author of over 65 research publications, and holds three patents. His research interests focus on catalytic kinetics in various energy and hydrocarbon resource conversion reactions, and the fundamentals of surface reactions. BRADLEY A. SAVILLE is an Associate Professor of Chemical Engineering at the University of Toronto. He received his B.Sc. and Ph.D. in chemical engineering at the University of Alberta. He is the author or co-author of over 25 research articles on enzyme kinetics, pharmacokinetics, heterogeneous reactions in biological systems, and reactors for immobilized enzymes. He is a member of the Chemical Institute of Canada, the Canadian Society of Chemical Engineering, and Professional Engineers Ontario.

I used this book in my undergrad Reactor design course. It was a new book to the department, one that the professor had read but hadn't used for an engineering class. Everyone in the classes before us had worshipped Fogler but the prof decided to give this a try, I think he was friends with the

authors. The book has the content you need, I just wasn't impressed with the layout. Sure the equation proofs were explained and displayed well, but the examples were a jumbled mess mixed up with the text. The software that comes with it is great, but it makes you lazy.

[Download to continue reading...](#)

Introduction to Chemical Reaction Engineering and Kinetics Elements of Chemical Reaction Engineering (5th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Essentials of Chemical Reaction Engineering (Prentice Hall International Series in Physical and Chemical Engineering) Reaction Kinetics and Reactor Design, Second Edition (Chemical Industries) Chemical Kinetics and Reaction Dynamics (Dover Books on Chemistry) Chemical Reaction Kinetics: Concepts, Methods and Case Studies Kinetics of Chemical Processes: Butterworth-Heinemann Series in Chemical Engineering Chemical Oscillations and Instabilities: Non-linear Chemical Kinetics (International Series of Monographs on Chemistry) Introduction to Chemical Engineering Thermodynamics (The McGraw-Hill Chemical Engineering Series) Advanced Organic Chemistry: Part B: Reaction and Synthesis: Reaction and Synthesis Pt. B The Structure and Reaction Processes of Coal (The Plenum Chemical Engineering Series) Chemical Reaction Engineering, 3rd Edition Elements of Chemical Reaction Engineering (4th Edition) Basic Principles and Calculations in Chemical Engineering (8th Edition) (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Fundamental Concepts and Computations in Chemical Engineering (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Fundamentals of Chemical Engineering Thermodynamics (Prentice Hall International Series in the Physical and Chemical Engineering Sciences) Unit Operations of Chemical Engineering (7th edition)(McGraw Hill Chemical Engineering Series) Fluid Mechanics for Chemical Engineers (UK Higher Education Engineering Chemical Engineering) Numerical Methods with Chemical Engineering Applications (Cambridge Series in Chemical Engineering) Chemical Kinetics and Dynamics (2nd Edition)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)