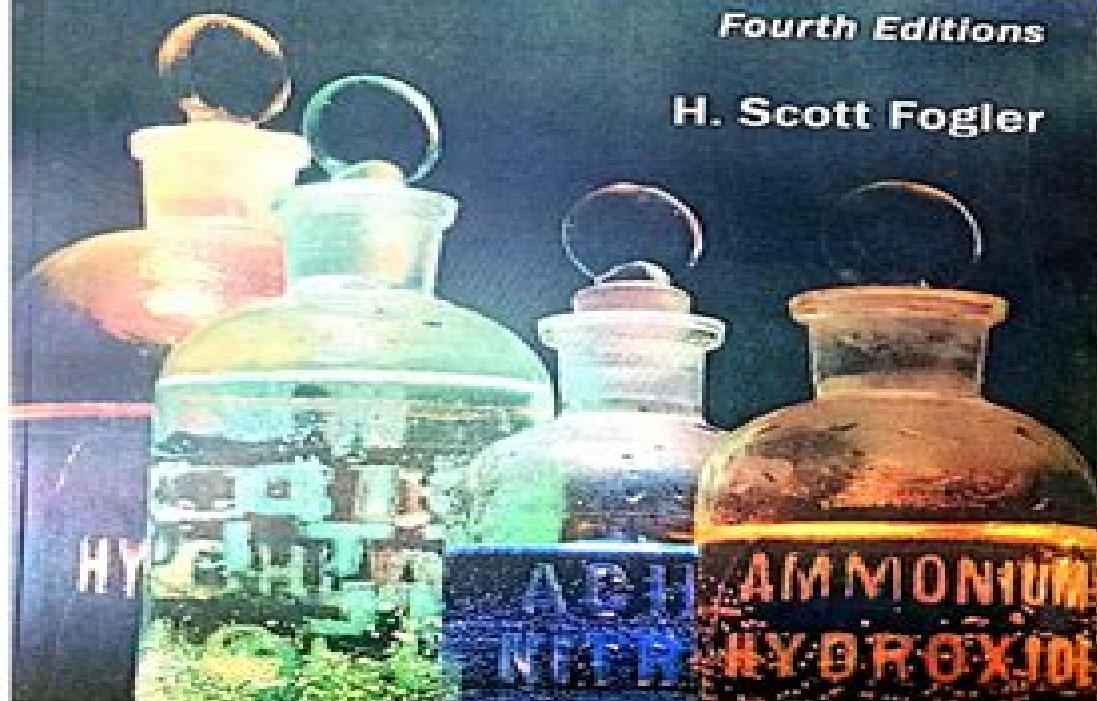


# Elements of Chemical Reaction Engineering

*Fourth Editions*

H. Scott Fogler



# Elements Of Chemical Reaction Engineering 4th Edition

**F. Carl Knopf**



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*Reaction Engineering, 4th Ed* Brian Vicente,H. Scott Fogler,Max Nori,2006 **Ludwig's Applied Process Design for Chemical and Petrochemical Plants** A. Kayode Coker,2014-11-29 The fourth edition of Ludwig s Applied Process Design for Chemical and Petrochemical Plants Volume Three is a core reference for chemical plant and process engineers and provides an unrivalled reference on methods process fundamentals and supporting design data New to this edition are expanded chapters on heat transfer plus additional chapters focused on the design of shell and tube heat exchangers double pipe heat exchangers and air coolers Heat tracer requirements for pipelines and heat loss from insulated pipelines are covered in this new edition along with batch heating and cooling of process fluids process integration and industrial reactors The book also looks at the troubleshooting of process equipment and corrosion and metallurgy Assists engineers in rapidly analyzing problems and finding effective design methods and mechanical specifications Definitive guide to the selection and design of various equipment types including heat exchanger sizing and compressor sizing with established design codes Batch heating and cooling of process fluids supported by Excel programs *Chemical Reactor Analysis and Applications for the Practicing Engineer* Louis Theodore,2012-09-11 This books 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.

**Basic Transport Phenomena in Biomedical Engineering, Third Edition** Ronald L. Fournier, 2011-08-26. Encompassing a variety of engineering disciplines and life sciences, the very scope and breadth of biomedical engineering presents challenges to creating a concise entry level text that effectively introduces basic concepts without getting overly specialized in subject matter or rarified in language. Basic Transport Phenomena in Biomedical Engineering Third Edition meets and overcomes these challenges to provide the beginning student with the foundational tools and the confidence they need to apply these techniques to problems of ever greater complexity. Bringing together fundamental engineering and life science principles, this highly accessible text provides a focused coverage of key momentum and mass transport concepts in biomedical engineering. It offers a basic review of units and dimensions, material balances, and problem solving tips, and then emphasizes those chemical and physical transport processes that have applications in the development of artificial and bioartificial organs, controlled drug delivery systems, and tissue engineering. The book also includes a discussion of thermodynamic concepts and covers topics such as body fluids, osmosis, and membrane filtration, physical and flow properties of blood, solute and oxygen transport, and pharmacokinetic analysis. It concludes with the application of these principles to extracorporeal devices, as well as tissue engineering and bioartificial organs. Designed for the beginning student, Basic Transport Phenomena in Biomedical Engineering Third Edition provides a quantitative understanding of the underlying physical, chemical, and biological phenomena involved. It offers mathematical models using the shell balance or compartmental approaches, along with numerous examples and end of chapter problems based on these mathematical models, and in many cases, these models are compared with actual experimental data. Encouraging students to work examples with the mathematical software package of their choice, this text provides them the opportunity to explore various aspects of the solution on their own or apply these techniques as starting points for the solution to their own problems.

**Fed-Batch Cultures** Henry C. Lim, Hwa Sung Shin, 2013-04-22. This first book dealing exclusively with every aspect of fed batch operations used in most industrially important fermentation and bioreactor operations.

**Model-Based Tools for Pharmaceutical Manufacturing Processes** Krist V. Gernaey, René Schenkendorf, Dimitrios I. Gerogiorgis, Seyed Soheil Mansouri, 2020-03-13. The Special

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F. Carl Knopf, 2011-12-14 Energy costs impact the profitability of virtually all industrial processes Stressing how plants use power and how that power is actually generated this book provides a clear and simple way to understand the energy usage in various processes as well as methods for optimizing these processes using practical hands on simulations and a unique approach that details solved problems utilizing actual plant data Invaluable information offers a complete energy saving approach essential for both the chemical and mechanical engineering curricula as well as for practicing engineers

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multiphase reactor types together with an assortment of computational tools Involves detailed coverage of multiphase reactor applications such as Fischer Tropsch synthesis fuel processing for fuel cells hydrotreating of oil fractions and biofuels processing *Transport Modeling for Environmental Engineers and Scientists* Mark M. Clark, 2011-09-20 Transport Modeling for Environmental Engineers and Scientists Second Edition builds on integrated transport courses in chemical engineering curricula demonstrating the underlying unity of mass and momentum transport processes It describes how these processes underlie the mechanics common to both pollutant transport and pollution control processes Modeling and Simulation of Chemical Process Systems Nayef Ghasem, 2018-11-08 In this textbook the author teaches readers how to model and simulate a unit process operation through developing mathematical model equations solving model equations manually and comparing results with those simulated through software It covers both lumped parameter systems and distributed parameter systems as well as using MATLAB and Simulink to solve the system model equations for both Simplified partial differential equations are solved using COMSOL an effective tool to solve PDE using the fine element method This book includes end of chapter problems and worked examples and summarizes reader goals at the beginning of each chapter

**Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set** Kirk-Othmer, 2007-07-16 This is an easily accessible two volume encyclopedia summarizing all the articles in the main volumes Kirk Othmer Encyclopedia of Chemical Technology Fifth Edition organized alphabetically Written by prominent scholars from industry academia and research institutions the Encyclopedia presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field

**Open-Ended Problems** James Patrick Abulencia, Louis Theodore, 2015-03-27 This is a unique book with nearly 1000 problems and 50 case studies on open ended problems in every key topic in chemical engineering that helps to better prepare chemical engineers for the future The term open ended problem basically describes an approach to the solution of a problem and or situation for which there is not a unique solution The Introduction to the general subject of open ended problems is followed by 22 chapters each of which addresses a traditional chemical engineering or chemical engineering related topic Each of these chapters contain a brief overview of the subject matter of concern e g thermodynamics which is followed by sample open ended problems that have been solved by the authors employing one of the many possible approaches to the solutions This is then followed by approximately 40 45 open ended problems with no solutions although many of the authors solutions are available for those who adopt the book for classroom or training purposes A reference section is included with the chapter s contents Term projects comprised of 12 additional chapter topics complement the presentation This book provides academic industrial and research personnel with the material that covers the principles and applications of open ended chemical engineering problems in a thorough and clear manner Upon completion of the text the reader should have acquired not only a working knowledge of the principles of chemical

engineering but also and more importantly experience in solving open ended problems What many educators have learned is that the applications and implications of open ended problems are not only changing professions but also are moving so fast that many have not yet grasped their tremendous impact The book drives home that the open ended approach will revolutionize the way chemical engineers will need to operate in the future

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*Product and Process Modelling* Ian T. Cameron, Rafiqul Gani, 2011-09-12 This book covers the area of product and process modelling via a case study approach It addresses a wide range of modelling applications with emphasis on modelling methodology and the subsequent in depth analysis of mathematical models to gain insight via structural aspects of the models These approaches are put into the context of life cycle modelling where multiscale and multiform modelling is increasingly prevalent in the 21st century The book commences with a discussion of modern product and process modelling theory and practice followed by a series of case studies drawn from a variety of process industries The book builds on the extensive modelling experience of the authors who have developed models for both research and industrial purposes It complements existing books by the authors in the modelling area Those areas include the traditional petroleum and petrochemical industries to biotechnology applications food polymer and human health application areas The book highlights the important nature of modern product and process modelling in the decision making processes across the life cycle As such it provides an important resource for students researchers and industrial practitioners Ian Cameron is Professor in Chemical Engineering at the University of Queensland with teaching research and consulting activities in process systems engineering He has a particular interest in process modelling dynamic simulation and the application of functional systems perspectives to risk management having extensive industrial experience in these areas He continues to work closely with industry and government on systems approaches to process and risk management issues He received his BE from the University of New South Wales Australia and his PhD from



imperial College London He is a Fellow of IChemE Rafiqul Gani is a Professor of Systems Design at the Department of Chemical and Biochemical Engineering Technical University of Denmark and the director of the Computer Aided Product Process Engineering Center CAPEC His research interests include the development of computer aided methods and tools for modelling property estimation and process product synthesis and design He received his BSc from Bangladesh University of Engineering and Technology in 1975 and his MSc in 1976 and PhD in 1980 from Imperial College London He is the editor in chief of Computers and Chemical Engineering journal and Fellow of IChemE as well as AIChE Product and process modelling a wide range of case studies are covered Structural analysis of model systems insights into structure and solvability Analysis of future developments potential directions and significant research and development problems to be addressed

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