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Elements Website managed by Arthur Shih and Professor Scott Fogler ...

Chemical Reaction Engineering: Fogler & Gurmen

Silver is a chemical element with symbol Ag (Greek: α rguros, Latin:argentum, both from the Indo-European root *h₂er - for "grey" or "shining") and atomic number 47. A soft, white, lustrous transition metal, it possesses the highest electrical conductivity, thermal conductivity and reflectivity of any

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metal.

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Fogler, H. Scott, author. Elements of chemical reaction engineering / H. Scott Fogler.—Fifth edition. pages cm Includes index. ISBN 978-0-13-388751-8 (hardcover : alk. paper) 1. Chemical reactors. I. Title. TP157.F65 2016 660'.2832—dc23 2015032892 Copyright © 2016 Pearson Education, Inc. All rights reserved. Printed in the United States of America.

~~Elements of Chemical Reaction Engineering~~

Elements of Chemical Reaction Engineering (2020) Essentials of Chemical Reaction Engineering (2016)

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The Definitive, Fully Updated Guide to Solving Real-World Chemical Reaction Engineering Problems. The fourth edition of Elements of Chemical Reaction Engineering is a completely revised version of the worldwide best-selling book. It combines authoritative coverage of the principles of chemical reaction engineering with an unsurpassed focus on critical thinking and creative problem solving, employing open-ended questions and stressing the Socratic method.

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Fogler is the AIChE 2008 President-elect. He has chaired ASEE 's Chemical Engineering Division, served as director of the American Institute of Chemical Engineers, earned the Warren K. Lewis Award from AIChE for contributions to chemical engineering education, and received the Chemical Manufacturers Association 's National Catalyst Award.

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In Elements of Chemical Reaction Engineering, Sixth Edition, H. Scott Fogler has made numerous updates, including greater emphasis on Chemical Reactor Safety, a new discussion on molecular simulations and stochastic modeling in Chapter 3, interactive modules on Living Example Problems and Molecular Simulations, revision and reworking of Chapters 11-13 from the Fifth Edition, and more. Wolfram and Polymath will be used to solve real-world chemical reaction engineering problems and to explore ...

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Fogler has dedicated his career to designing and integrating creative teaching methods into both individual chemical engineering courses and, more broadly, academic curricula.

'Elements of Chemical Reaction Engineering', fourth edition, presents the fundamentals of chemical reaction engineering in a clear and concise manner.

"The fourth edition of Elements of Chemical Reaction Engineering is a completely revised version of the book. It combines authoritative coverage of the principles of chemical reaction engineering with an unsurpassed focus on critical thinking and creative problem solving, employing open-ended questions and stressing the Socratic method. Clear and organized, it integrates text, visuals, and computer simulations to help readers solve even the most challenging problems through reasoning, rather than by memorizing equations."--BOOK JACKET.

Today ' s Definitive, Undergraduate-Level Introduction to Chemical Reaction Engineering Problem-Solving For 30 years, H. Scott Fogler ' s Elements of Chemical Reaction Engineering has been the #1 selling text for courses in chemical reaction engineering worldwide. Now, in Essentials of Chemical Reaction Engineering, Second Edition, Fogler has distilled this classic into a modern, introductory-level guide specifically for undergraduates. This is the ideal resource for today ' s students: learners who demand instantaneous access to information and want to enjoy learning as they deepen their critical thinking and creative problem-solving skills. Fogler successfully integrates text, visuals, and computer simulations, and links theory to practice through many relevant examples. This updated second edition covers mole balances, conversion and reactor sizing, rate laws and stoichiometry, isothermal reactor design, rate data collection/analysis, multiple reactions, reaction mechanisms, pathways, bioreactions and bioreactors, catalysis, catalytic reactors, nonisothermal reactor designs, and more. Its multiple improvements include a new discussion of activation energy, molecular simulation, and stochastic modeling, and a significantly

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revamped chapter on heat effects in chemical reactors. To promote the transfer of key skills to real-life settings, Fogler presents three styles of problems: Straightforward problems that reinforce the principles of chemical reaction engineering Living Example Problems (LEPs) that allow students to rapidly explore the issues and look for optimal solutions Open-ended problems that encourage students to use inquiry-based learning to practice creative problem-solving skills About the Web Site (umich.edu/~elements/5e/index.html) The companion Web site offers extensive enrichment opportunities and additional content, including Complete PowerPoint slides for lecture notes for chemical reaction engineering classes Links to additional software, including Polymath, MATLAB, Wolfram Mathematica, AspenTech, and COMSOL Multiphysics Interactive learning resources linked to each chapter, including Learning Objectives, Summary Notes, Web Modules, Interactive Computer Games, Computer Simulations and Experiments, Solved Problems, FAQs, and links to LearnChemE Living Example Problems that provide more than 75 interactive simulations, allowing students to explore the examples and ask "what-if" questions Professional Reference Shelf, containing advanced content on reactors, weighted least squares, experimental planning, laboratory reactors, pharmacokinetics, wire gauze reactors, trickle bed reactors, fluidized bed reactors, CVD boat reactors, detailed explanations of key derivations, and more Problem-solving strategies and insights on creative and critical thinking Register your product at informit.com/register for convenient access to downloads, updates, and/or corrections as they become available.

Learn Chemical Reaction Engineering through Reasoning, Not Memorization Essentials of Chemical Reaction Engineering is the complete, modern introduction to chemical reaction engineering for today's undergraduate students. Starting from the strengths of his classic Elements of Chemical Reaction Engineering, Fourth Edition, in this volume H. Scott Fogler added new material and distilled the essentials for undergraduate students. Fogler's unique way of presenting the material helps students gain a deep, intuitive understanding of the field's essentials through reasoning, using a CRE algorithm, not memorization. He especially focuses on important new energy and safety issues, ranging from solar and biomass applications to the avoidance of runaway reactions. Thoroughly classroom tested, this text reflects feedback from hundreds of students at the University of Michigan and other leading universities. It also provides new resources to help students discover how reactors behave in diverse situations-including many realistic, interactive simulations on DVD-ROM. New Coverage Includes Greater emphasis on safety: following the recommendations of the Chemical Safety Board (CSB), discussion of crucial safety topics, including ammonium nitrate CSTR explosions, case studies of the nitroaniline explosion, and the T2 Laboratories batch reactor runaway Solar energy conversions: chemical, thermal, and catalytic water spilling Algae production for biomass Steady-state nonisothermal reactor design: flow reactors with heat exchange Unsteady-state nonisothermal reactor design with case studies of reactor explosions About the DVD-ROM The DVD contains six additional, graduate-level chapters covering catalyst decay, external diffusion effects on heterogeneous reactions, diffusion and reaction, distribution of residence times for reactors, models for non-ideal reactors, and radial and axial temperature variations in tubular reactions. Extensive additional DVD resources include Summary notes, Web modules, additional examples, derivations, audio commentary, and self-tests Interactive computer games that review and apply important chapter concepts Innovative "Living Example Problems" with Polymath code that can be loaded directly from the DVD so students can play with the solution to get an innate feeling of how reactors operate A 15-day trial of Polymath(tm) is included, along with a link to the Fogler Polymath site A complete, new AspenTech tutorial, and four complete example problems Visual Encyclopedia of Equipment, Reactor Lab, and other intuitive tools More than 500 PowerPoint slides of lecture notes Additional updates, applications, and information are available at www.umich.edu/~essen and www.essentialsofcre.com.

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Wolfram, Python, POLYMATH, and MATLAB, students can explore reactions and reactors by running realistic simulation experiments. Writing for today's students, Fogler provides instant access to information, avoids extraneous details, and presents novel problems linking theory to practice. Faculty can flexibly define their courses, drawing on updated chapters, problems, and extensive Professional Reference Shelf web content at diverse levels of difficulty. The book thoroughly prepares undergraduates to apply chemical reaction kinetics and physics to the design of chemical reactors. And four advanced chapters address graduate-level topics, including effectiveness factors. To support the field's growing emphasis on chemical reactor safety, each chapter now ends with a practical safety lesson. Updates throughout the book reflect current theory and practice and emphasize safety. New discussions of molecular simulations and stochastic modeling. Increased emphasis on alternative energy sources such as solar and biofuels. Thorough reworking of three chapters on heat effects. Full chapters on nonideal reactors, diffusion limitations, and residence time distribution. About the Companion Web Site (umich.edu/~elements/6e/index.html) Complete PowerPoint slides for lecture notes for chemical reaction engineering classes. Links to additional software, including POLYMATH™, MATLAB™, Wolfram Mathematica™, AspenTech™, and COMSOL™. Interactive learning resources linked to each chapter, including Learning Objectives, Summary Notes, Web Modules, Interactive Computer Games, Solved Problems, FAQs, additional homework problems, and links to LearnChemE Living Example Problems – unique to this book – that provide more than 80 interactive simulations, allowing students to explore the examples and ask "what-if" questions. Professional Reference Shelf, which includes advanced content on reactors, weighted least squares, experimental planning, laboratory reactors, pharmacokinetics, wire gauze reactors, trickle bed reactors, fluidized bed reactors, CVD boat reactors, detailed explanations of key derivations, and more. Problem-solving strategies and insights on creative and critical thinking.

Today's Definitive, Undergraduate-Level Introduction to Chemical Reaction Engineering Problem-Solving. For 30 years, H. Scott Fogler's Elements of Chemical Reaction Engineering has been the #1 selling text for courses in chemical reaction engineering worldwide. Now, in Essentials of Chemical Reaction Engineering, Second Edition, Fogler has distilled this classic into a modern, introductory-level guide specifically for undergraduates. This is the ideal resource for today's students: learners who demand instantaneous access to information and want to enjoy learning as they deepen their critical thinking and creative problem-solving skills. Fogler successfully integrates text, visuals, and computer simulations, and links theory to practice through many relevant examples. This updated second edition covers mole balances, conversion and reactor sizing, rate laws and stoichiometry, isothermal reactor design, rate data collection/analysis, multiple reactions, reaction mechanisms, pathways, bioreactions and bioreactors, catalysis, catalytic reactors, nonisothermal reactor designs, and more. Its multiple improvements include a new discussion of activation energy, molecular simulation, and stochastic modeling, and a significantly revamped chapter on heat effects in chemical reactors. To promote the transfer of key skills to real-life settings, Fogler presents three styles of problems: Straightforward problems that reinforce the principles of chemical reaction engineering. Living Example Problems (LEPs) that allow students to rapidly explore the issues and look for optimal solutions. Open-ended problems that encourage students to use inquiry-based learning to practice creative problem-solving skills. About the Web Site (umich.edu/~elements/5e/index.html) The companion Web site offers extensive enrichment opportunities and additional content, including Complete PowerPoint slides for lecture notes for chemical reaction engineering classes. Links to additional software, including Polymath, MATLAB, Wolfram Mathematica, AspenTech, and COMSOL. Multiphysics. Interactive learning resources linked to each chapter, including Learning Objectives, Summary Notes, Web Modules, Interactive Computer Games, Computer Simulations and Experiments, Solved Problems, FAQs, and links to LearnChemE Living Example Problems that provide more than 75 interactive simulations, allowing students to explore the examples and ask "what-if" questions. Professional Reference Shelf, containing a...

Appropriate for a one-semester undergraduate or first-year graduate course, this text introduces the

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quantitative treatment of chemical reaction engineering. It covers both homogeneous and heterogeneous reacting systems and examines chemical reaction engineering as well as chemical reactor engineering. Each chapter contains numerous worked-out problems and real-world vignettes involving commercial applications, a feature widely praised by reviewers and teachers. 2003 edition.

This is the first book entirely on the topic of Migration of Fine Particles in Porous Media. There are two purposes for the use of this book. First, the book is intended to serve as a comprehensive monograph for scientists and engineers concerned with problems of erosion, pollution and plugging due to migration of fines in porous media. Second, the book is recommended to be used as a reference book for courses offered at senior or graduate level on the topics of flow through porous media, soil erosion and pollution, or formation damage. The migration of fine particles in porous media is an engineering concern in oil production, soil erosion, ground water pollution and in the operation of filter beds. As a result, the topic has been studied by researchers working in a number of disciplines. These studies in different disciplines are conducted, by and large, independently and hence there is some repetition and perhaps more importantly there is a lack of uniformity and coherence. These studies, nevertheless, complement each other. To illustrate the point, consider for example the migration of fine particles induced by hydrodynamic forces.

This book provides a framework to hone and polish any person's creative problem-solving skills.

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