

Introduction To Chemical Processes Solutions Manual

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Chemical Reactions John Joseph Griffin 1860

Introduction to Chemical Processes: Principles, Analysis, Synthesis Regina M. Murphy 2007 Introduction to Chemical Processes: Principles, Analysis, Synthesis enhances student understanding of the connection between the chemistry and the process. Users will find strong coverage of chemistry, gain a solid understanding of what chemical processes do (convert raw materials into useful products using energy and other resources), and learn about the ways in which chemical engineers make decisions and balance constraints to come up with new processes and products. The author presents material and energy balances as tools to achieve a real goal: workable, economical, and safe chemical processes and products. Loaded with intriguing pedagogy, this text is essential to a students first course in Chemical Engineering. Additional resources intended to guide users are also available as package options, such as ChemSkill Builder.

Chemical Engineering Design Gavin Towler 2007-11-26 Bottom line: For a holistic view of chemical engineering design, this book provides as much, if not more, than any other book available on the topic. --Extract from Chemical Engineering Resources review. Chemical Engineering Design is one of the best-known and widely adopted texts available for students of chemical engineering. It deals with the application of chemical engineering principles to the design of chemical

processes and equipment. Revised throughout, this US edition has been specifically developed for the US market. It covers the latest aspects of process design, operations, safety, loss prevention and equipment selection, among others. Comprehensive in coverage, exhaustive in detail, it is supported by extensive problems and a separate solutions manual for adopting tutors and lecturers. In addition, the book is widely used by professions as a day-to-day reference. Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses Teaches commercial engineering tools for simulation and costing Comprehensive coverage of unit operations, design and economics Strong emphasis on HS&E issues, codes and standards, including API, ASME and ISA design codes and ANSI standards 108 realistic commercial design projects from diverse industries

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Student Solutions Manual David W. Oxtoby 2022-08-23 Prepare for exams and succeed in your chemistry course with this comprehensive solutions manual! Featuring worked-out solutions to every odd-numbered problem in PRINCIPLES OF MODERN CHEMISTRY, 8th Edition, this manual shows you how to approach and solve problems using the same step-by-step explanations found in your textbook examples. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Chemical Engineering Design and Analysis T. Michael Duncan 1998-08-28 Students taking their first chemical engineering course plunge into the 'nuts and bolts' of mass and energy balances and often miss the broad view of what chemical engineers do. This 1998 text offers a well-paced introduction to chemical engineering. Students are first introduced to the fundamental steps in design and three methods of analysis: mathematical modeling, graphical methods, and dimensional analysis. The book then describes how to apply engineering skills, such as how to simplify calculations through assumptions and approximations; how to verify calculations, significant figures, spreadsheets, graphing (standard, semi-log and log-log); and how to use data maps. In addition, the book teaches engineering skills through the design and analysis of chemical processes and process units in order to assess product quality, economics, safety, and environmental impact. This text will help undergraduate students in chemical engineering develop engineering skills early in their studies. Lecturer's solution manual available from the publisher on request.

Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H. Strogatz 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and culminating with the Lorenz equations, chaos, iterated maps, period doubling, renormalization, fractals,

and strange attractors.

Elementary Principles of Chemical Processes, Student Workbook Richard M. Felder 2005-01-20 This best-selling book prepares readers to formulate and solve material and energy balances in chemical process systems. It provides a realistic, informative, and positive introduction to the practice of chemical engineering.

The General Chemistry Workbook & Solutions Manual James Coy-Dibley 2017-12-29 General chemistry is a course required for every science student regardless of career path. Within this introduction to chemistry class, students gain an essential foundation in the chemical makeup of the world around us. Whether you want to be a doctor, a nurse, earn a PhD, or enter any other field involving science in any way, gaining a strong understanding of chemistry from the start is an invaluable first step. The General Chemistry Workbook & Solutions Manual is a step-by-step guide through first-year chemistry for students who want to effectively learn chemistry while earning the best grade possible in the process. With detailed solutions to every question, this book will ensure you're ready on test day, whether that be in an undergraduate classroom or a standardized test, such as the MCAT or PCAT. It covers all of the content in standard general chemistry courses. The First Semester is designed for students on a Semester system at their university - it includes the first half of the book, both the workbook and solutions manual, at an affordable price. If you are looking for a way to improve your science grades, earn a solid foundation in chemistry, and prepare for that next big test in your chemistry course or another test, this book is absolutely for you.

Introduction to Chemical Processes Regina M. Murphy 2022 "Introduction to Chemical Processes: Principles, Analysis, Synthesis, 2e is intended for use in an introductory, one-semester course for students in chemical engineering and related disciplines"--

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Student Solutions Manual for Whitten/Davis/Peck/Stanley's Chemistry, 10th Kenneth W. Whitten 2013-03-06 Master problem-solving using the detailed solutions in this manual, which contains answers and solutions to all even-numbered end-of-chapter exercises. Solutions are divided by section for easy reference. With this guide, the author helps you achieve a deeper, intuitive understanding of the material through constant reinforcement and practice. An online version is also available through OWL. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Student Solutions Manual to Accompany Atkins' Physical Chemistry, 10th Edition Charles Trapp 2014 The Student

Solutions Manual to accompany Atkins' Physical Chemistry 10th edition provides full worked solutions to the 'a' exercises, and the odd-numbered discussion questions and problems presented in the parent book. The manual is intended for students and instructors alike, and provides helpful comments and friendly advice to aid understanding.

Student Solutions Manual for Bettelheim/Brown/Campbell/Farrell/Torres' Introduction to General, Organic and Biochemistry, 10th Frederick A. Bettelheim 2012-01-01 Master problem-solving and prepare for exams using the complete worked-out solutions to all in-text and odd-numbered end-of-chapter questions provided in this manual. Important Notice:

Media content referenced within the product description or the product text may not be available in the ebook version.

NUMERICAL, SYMBOLIC AND STATISTICAL COMPUTING FOR CHEMICAL ENGINEERS USING MATLAB Ghosh,

Pallab 2018-09-01 Numerical, analytical and statistical computations are routine affairs for chemical engineers. They

usually prefer a single software to solve their computational problems, and at present, MATLAB has emerged as a powerful computational language, which is preferably used for this purpose, due to its built-in functions and toolboxes.

Considering the needs and convenience of the students, the author has made an attempt to write this book, which explains the various concepts of MATLAB in a systematic way and makes its readers proficient in using MATLAB for computing. It mainly focuses on the applications of MATLAB, rather than its use in programming basic numerical algorithms. Commencing with the introduction to MATLAB, the text covers vector and matrix computations, solution of linear and non-linear equations, differentiation and integration, and solution of ordinary and partial differential equations.

Next, analytical computations using the Symbolic Math Toolbox and statistical computations using the Statistics and Machine Learning Toolbox are explained. Finally, the book describes various curve fitting techniques using the Curve Fitting Toolbox. Inclusion of all these advanced-level topics in the book stands it out from the rest. KEY FEATURES ?

Numerous worked-out examples to enable the readers understand the steps involved in solving the chemical engineering problems ? MATLAB codes to explain the computational techniques ? Several snapshots to help the readers understand

the step-by-step procedures of using the toolboxes ? Chapter-end exercises, including short-answer questions and numerical problems ? Appendix comprising the definitions of some important and special matrices ? Supplemented with

Solutions Manual containing complete detailed solutions to the unsolved analytical problems ? Accessibility of selected colour figures (including screenshots and results/outputs of the programs) cited in the text at

www.phindia.com/Pallab_Ghosh. TARGET AUDIENCE • BE/B.Tech (Chemical Engineering) • ME/M.Tech (Chemical Engineering)

Chemical Engineering Education 1991

Chemical Engineering Thermodynamics Pradeep Ahuja 2008-12-01 This book offers a full account of thermodynamic

systems in chemical engineering. It provides a solid understanding of the basic concepts of the laws of thermodynamics as well as their applications with a thorough discussion of phase and chemical reaction equilibria. At the outset the text explains the various key terms of thermodynamics with suitable examples and then thoroughly deals with the virial and cubic equations of state by showing the P-V-T (pressure, molar volume and temperature) relation of fluids. It elaborates on the first and second laws of thermodynamics and their applications with the help of numerous engineering examples. The text further discusses the concepts of exergy, standard property changes of chemical reactions, thermodynamic property relations and fugacity. The book also includes detailed discussions on residual and excess properties of mixtures, various activity coefficient models, local composition models, and group contribution methods. In addition, the text focuses on vapour-liquid and other phase equilibrium calculations, and analyzes chemical reaction equilibria and adiabatic reaction temperature for systems with complete and incomplete conversion of reactants. key Features ? Includes a large number of fully worked-out examples to help students master the concepts discussed. ? Provides well-graded problems with answers at the end of each chapter to test and foster students' conceptual understanding of the subject. The total number of solved examples and end-chapter exercises in the book are over 600. ? Contains chapter summaries that review the major concepts covered. The book is primarily designed for the undergraduate students of chemical engineering and its related disciplines such as petroleum engineering and polymer engineering. It can also be useful to professionals. The Solution Manual containing the complete worked-out solutions to chapter-end exercises and problems is available for instructors.

Chemical Process Control George Stephanopoulos 1984

Introduction to Chemical Engineering Thermodynamics Hendrick C Van Ness 2017-03-20 Introduction to Chemical Engineering Thermodynamics presents comprehensive coverage of the subject of thermodynamics from a chemical engineering viewpoint. The text provides a thorough exposition of the principles of thermodynamics, and details their application to chemical processes. The content is structured to alternate between the development of thermodynamic principles and the correlation and use of thermodynamic properties as well as between theory and applications. The chapters are written in a clear, logically organized manner, and contain an abundance of realistic problems, examples, and illustrations to help students understand complex concepts. New ideas, terms, and symbols constantly challenge the readers to think and encourage them to apply this fundamental body of knowledge to the solution of practical problems. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily

and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

Introduction to Chemical Engineering Thermodynamics H. C. Van Ness 1987 "Introduction to Chemical Engineering Thermodynamics, 6/e," presents comprehensive coverage of the subject of thermodynamics from a chemical engineering viewpoint. The text provides a thorough exposition of the principles of thermodynamics and details their application to chemical processes. The chapters are written in a clear, logically organized manner, and contain an abundance of realistic problems, examples, and illustrations to help students understand complex concepts. New ideas, terms, and symbols constantly challenge the readers to think and encourage them to apply this fundamental body of knowledge to the solution of practical problems. The comprehensive nature of this book makes it a useful reference both in graduate courses and for professional practice. The sixth edition continues to be an excellent tool for teaching the subject of chemical engineering thermodynamics to undergraduate students.

Scientific and Technical Books in Print 1972

A Real-Time Approach to Process Control William Y. Svrcek 2000-05-02 A hands-on teaching and reference text for chemical engineers In writing this book the authors' have focused exclusively on the vast majority of chemical engineering students who need a basic understanding of practical process control for their industrial careers. Traditionally process control has been taught using non-intuitive and highly mathematical techniques (Laplace and frequency-domain techniques). Aside from being difficult to master in a one-semester course, the traditional approach is of limited use for more complex process control problems encountered in the chemical processing industries. When designing and analyzing multi-loop control systems today, industry practitioners employ both steady-state and dynamic simulation-based methodologies. These 'real time' methods have now all but replaced the traditional approach. A Real Time Approach to Process Control provides the student with both a theoretical and practical introduction to this increasingly important approach. Assuming no prior knowledge of the subject, this text introduces all of the applied fundamentals of process control from instrumentation to process dynamics, PID loops and tuning, to distillation, multi-loop and plant-wide control. In addition, students come away with a working knowledge of the three most popular dynamic simulation packages. The text carefully balances theory and practice by offering students readings and lecture materials along with hands-on workshops that provide a 'virtual' process on which to experiment and from which to learn modern, real time control strategy development. Features: * The first and only textbook to use a completely real time approach. * Gives students the opportunity to understand and use HYSYS software. * Carefully designed workshops (tutorials) have been included to

allow students to practice and apply the theory. * Includes many worked examples and student problems. VISIT THE AUTHORS' WEBSITE: www.ench.ucalgary.ca/~realtime

Introduction to Basic Concepts in Engineering Andrew S. Heintz 2016-12-01 This manual contains the complete worked-out solutions for all practice problems and comprehensive learning problems in the text Introduction to Basic Concepts in Engineering: for adept high school students. This manual is written as a companion to the first edition text. Key Features Solutions are shown and explained in a step-by-step process, ending with the final solution Solutions to all chapter-end practice problems: Chapter 4 - Units and Conversions (32 problems) Chapter 5 - Electrical Circuits (40 problems) Chapter 6 - Thermodynamics (37 problems) Chapter 7 - Fluid Statics and Fluid Dynamics (46 problems) Chapter 8 - Material and Energy Balances (27 problems) Chapter 9 - Engineering Statistics (17 problems) Chapter 10 - Computer Engineering (18 problems) Chapter 11 - Reliability Engineering (23 problems) Chapter 12 - Materials Science and Engineering (28 problems) Chapter 13 - Industrial Manufacturing and Operations (23 problems) Problem solving strategy and worked solutions for all comprehensive learning problems

Student Solutions Manual to accompany Electrochemical Methods: Fundamentals and Applications, 2e Allen J. Bard 2002-01-23 Extensive explanations of problems from the text Student Solutions Manual to accompany Electrochemical Methods: Fundamentals and Applications, 2nd Edition provides fully-worked solutions for the problems presented in the text. Extensive, in-depth explanations walk you step-by-step through each problem, and present alternative approaches and solutions where they exist. Graphs and diagrams are included as needed, and accessible language facilitates better understanding of the material. Fully aligned with the text, this manual covers thermodynamics, mass transfer, impedance, spectroelectrochemistry, and other related topics, and appendices provide detailed mathematical reference and digital simulations.

Instrument Engineers' Handbook, Volume Two Bela G. Liptak 2018-10-08 The latest update to Bela Liptak's acclaimed "bible" of instrument engineering is now available. Retaining the format that made the previous editions bestsellers in their own right, the fourth edition of Process Control and Optimization continues the tradition of providing quick and easy access to highly practical information. The authors are practicing engineers, not theoretical people from academia, and their from-the-trenches advice has been repeatedly tested in real-life applications. Expanded coverage includes descriptions of overseas manufacturer's products and concepts, model-based optimization in control theory, new major inventions and innovations in control valves, and a full chapter devoted to safety. With more than 2000 graphs, figures, and tables, this all-inclusive encyclopedic volume replaces an entire library with one authoritative reference. The fourth edition brings the content of the previous editions completely up to date, incorporates the developments of the last

decade, and broadens the horizons of the work from an American to a global perspective. Béla G. Lipták speaks on Post-Oil Energy Technology on the AT&T Tech Channel.

Chemical Engineering Design Gavin Towler 2008 "Bottom line: For a holistic view of chemical engineering design, this book provides as much, if not more, than any other book available on the topic." Extract from Chemical Engineering Resources review. Chemical Engineering Design is a complete course text for students of chemical engineering. Written for the Senior Design Course, and also suitable for introduction to chemical engineering courses, it covers the basics of unit operations and the latest aspects of process design, equipment selection, plant and operating economics, safety and loss prevention. It is a textbook that students will want to keep through their undergraduate education and on into their professional lives. * Provides students with a text of unmatched relevance for the Senior Design Course and Introductory Chemical Engineering Courses * Teaches commercial engineering tools for simulation and costing * Comprehensive coverage of unit operations, design and economics Strong emphasis on HS&E issues, codes and standards, including API, ASME and ISA design codes and ANSI standards * 108 realistic commercial design projects from diverse industries * A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website * Extensive instructor resources: 1170 lecture slides on CD plus fully worked solutions manual

Essentials of Chemical Reaction Engineering H. Scott Fogler 2010-11-02 Learn Chemical Reaction Engineering through Reasoning, Not Memorization Essentials of Chemical Reaction Engineering is a complete yet concise, modern introduction to chemical reaction engineering for undergraduate students. While the classic Elements of Chemical Reaction Engineering, Fourth Edition, is still available, H. Scott Fogler distilled that larger text into this volume of essential topics 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, 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. Coverage includes Crucial safety topics, including ammonium nitrate CSTR explosions, nitroaniline and T2 Laboratories batch reactor runaways, and SChE/CCPS resources Greater emphasis on safety: following the recommendations of the Chemical Safety Board (CSB) 2 case studies from plant explosions and two homework problems which discuss another explosion. Solar energy conversions: chemical, thermal, and catalytic water spilling Algae production for biomass Mole balances: batch, continuous-flow, and industrial reactors Conversion and reactor sizing: design equations, reactors in

series, and more Rate laws and stoichiometry Isothermal reactor design: conversion and molar flow rates Collection and analysis of rate data Multiple reactions: parallel, series, and complex reactions; membrane reactors; and more Reaction mechanisms, pathways, bioreactions, and bioreactors Catalysis and catalytic reactors Nonisothermal reactor design: steady-state energy balance and adiabatic PFR applications Steady-state nonisothermal reactor design: flow reactors with heat exchange

Chemistry, Student Solutions Manual James N. Spencer 2008-01-09 This innovative text provides a 15-chapter introduction to the fundamental concepts of chemistry. The material is then supplemented by special topics at the end of each chapter.

Lab Manual for Zumdahl/Zumdahl's Chemistry, 9th Steven S. Zumdahl 2013-01-01 Build skill and confidence in the lab with the 61 experiments included in this manual. Safety is strongly emphasized throughout the lab manual. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office 1968 Student Solutions Manual David W. Ball 2022-08-05 Master problem-solving using the detailed solutions in this manual, which contains completely worked-out solutions to all odd end-of-chapter exercises and problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Elementary Principles of Chemical Processes Richard M. Felder 2020-08-25 Elementary Principles of Chemical Processes, 4th Edition prepares students to formulate and solve material and energy balances in chemical process systems and lays the foundation for subsequent courses in chemical engineering. The text provides a realistic, informative, and positive introduction to the practice of chemical engineering.

Chemistry, Student Solutions Manual James N. Spencer 2002-07-25 The second edition of Spencer's Chemistry: Structure and Dynamics has been the most successful reform project published for the General Chemistry course. The authors have revised the text, by building on the recommendations of the ACS's Task Force on the General Chemistry Curriculum and suggestions from the adopters of the first edition. This innovative text provides a fifteen-chapter introduction to the fundamental concepts of Chemistry. A collection of additional topics at the end of each chapter allow instructors to supplement and tailor their courses according to individual need. Three major themes link the content of the book: the process of science, the relationship between molecular structure and physical/chemical properties, and the relationship between the microscopic and macroscopic levels.

An Introduction to Numerical Methods for Chemical Engineers James B. Riggs 1994 In this second edition of An

Introduction to Numerical Methods for Chemical Engineers the author has revised text, added new problems, and updated the accompanying computer programs. The result is a text that puts students on the cutting-edge of solving relevant chemical engineering problems. Designed explicitly for undergraduates, this book provides students with software and experience to solve a number of problems. Included in the text are: Numerical algorithms in explicit detail. Example problems from thermodynamic, fluid flow, heat transfer, mass transfer, kinetics, and process design. Equations developed specifically for the student from the example problems. An introduction to advanced numerical techniques, such as finite elements, singular value decomposition, and arc length homotopy. An introduction to optimization. A systematic approach to process modeling presented with advanced modeling examples. The software that accompanies the book is for IBM-compatible PCs. A solution manual is also available upon request. An Introduction to Numerical Methods for Chemical Engineers was first published in 1988 and has been taught in universities throughout the nation.

ISE Introduction to Chemical Processes: Principles, Analysis, Synthesis MURPHY 2022-04-05

Chemical Engineering Design and Analysis T. Duncan 1998 Students taking their first chemical engineering course plunge into the 'nuts and bolts' of mass and energy balances and often miss the broad view of what chemical engineers do. This 1998 text offers a well-paced introduction to chemical engineering. Students are first introduced to the fundamental steps in design and three methods of analysis: mathematical modeling, graphical methods, and dimensional analysis. The book then describes how to apply engineering skills, such as how to simplify calculations through assumptions and approximations; how to verify calculations, significant figures, spreadsheets, graphing (standard, semi-log and log-log); and how to use data maps. In addition, the book teaches engineering skills through the design and analysis of chemical processes and process units in order to assess product quality, economics, safety, and environmental impact. This text will help undergraduate students in chemical engineering develop engineering skills early in their studies. Lecturer's solution manual available from the publisher on request.

U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States.

Environmental Protection Agency. Library Systems Branch 1974

Solutions Manual: Introduction to Analysis and Design of Equilibrium Staged Separation Processes Rajinder Pal 2020-03-31 This Solutions Manual gives complete solutions of all the practice problems given at the end of each chapter (total of 16 chapters) of the text INTRODUCTION TO ANALYSIS AND DESIGN OF EQUILIBRIUM STAGED SEPARATION PROCESSES. For the convenience of the readers, the practice problems given in the text have been restated before providing the solution.

Introduction to Process Control - Solutions Manual

Palazoglu Ahmet 2005-06

Chemical Process Engineering Volume 2 A. Kayode Coker 2022-07-20 CHEMICAL PROCESS ENGINEERING Written by one of the most prolific and respected chemical engineers in the world and his co-author, also a well-known and respected engineer, this two-volume set is the “new standard” in the industry, offering engineers and students alike the most up-to-date, comprehensive, and state-of-the-art coverage of processes and best practices in the field today. This new two-volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design. Useful not only for students, university professors, and practitioners, especially process, chemical, mechanical and metallurgical engineers, it is also a valuable reference for other engineers, consultants, technicians and scientists concerned about various aspects of industrial design. The text can be considered as complementary to process design for senior and graduate students as well as a hands-on reference work or refresher for engineers at entry level. The contents of the book can also be taught in intensive workshops in the oil, gas, petrochemical, biochemical and process industries. The book provides a detailed description and hands-on experience on process design in chemical engineering, and it is an integrated text that focuses on practical design with new tools, such as Microsoft Excel spreadsheets and UniSim simulation software. Written by two of the industry’s most trustworthy and well-known authors, this book is the new standard in chemical, biochemical, pharmaceutical, petrochemical and petroleum refining. Covering design, analysis, simulation, integration, and, perhaps most importantly, the practical application of Microsoft Excel-UniSim software, this is the most comprehensive and up-to-date coverage of all of the latest developments in the industry. It is a must-have for any engineer or student’s library.