

Excel Solutions to the Chemical Engineering Problem Set

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Introduction

These solutions are to the problems given in Reference (1) which were presented at the ASEE Chemical Engineering Summer School held in Snowbird, Utah on August 13, 1997.

Excel version 7.0 (part of Microsoft's Office 95) was used to solve all the problems. Considerable use was made of Visual Basic for Applications which is part of Excel. User defined functions were written (in VBA) to carry a number of functions including the numerical integration of differential equations (4th order Runge-Kutta method). Use was also made of the Solver and Goal Seek programs routines that are supplied as add-ins with Excel 7.0.

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JL Elias



Excel Solutions To The Chemical Engineering Problem Set:

Problem Solving in Chemical Engineering with Numerical Methods Michael B. Cutlip, Mordechai Shacham, 1999 A companion book including interactive software for students and professional engineers who want to utilize problem solving software to effectively and efficiently obtain solutions to realistic and complex problems An Invaluable reference book that discusses and Illustrates practical numerical problem solving in the core subject areas of Chemical Engineering Problem Solving in Chemical Engineering with Numerical Methods provides an extensive selection of problems that require numerical solutions from throughout the core subject areas of chemical engineering Many are completely solved or partially solved using POLYMATH as the representative mathematical problem solving software Ten representative problems are also solved by Excel Maple Mathcad MATLAB and Mathematica All problems are clearly organized and all necessary data are provided Key equations are presented or derived Practical aspects of efficient and effective numerical problem solving are emphasized Many complete solutions are provided within the text and on the CD ROM for use in problem solving exercises BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved **A Numerical Primer for the Chemical Engineer** Edwin Zondervan, 2014-08-12 Solve Developed Models in a Numerical Fashion Designed as an introduction to numerical methods for students A Numerical Primer for the Chemical Engineer explores the role of models in chemical engineering Combining mathematical correctness model verification with numerical performance model validation this text concentrates on numerical metho **Introduction to Chemical Engineering Computing** Bruce A. Finlayson, 2012-07-31 Step by step instructions enable chemical engineers to master key software programs and solve complex problems Today both students and professionals in chemical engineering must solve increasingly complex problems dealing with refineries fuel cells microreactors and pharmaceutical plants to name a few With this book as their guide readers learn to solve these problems using their computers and Excel MATLAB Aspen Plus and COMSOL Multiphysics Moreover they learn how to check their solutions and validate their results to make sure they have solved the problems correctly Now in its Second Edition Introduction to Chemical Engineering Computing is based on the author s firsthand teaching experience As a result the emphasis is on problem solving Simple introductions help readers become conversant with each program and then tackle a broad range of problems in chemical engineering including Equations of state Chemical reaction equilibria Mass balances with recycle streams Thermodynamics and simulation of mass transfer equipment Process simulation Fluid flow in two and three dimensions All the chapters contain clear instructions figures and examples to guide readers through all the programs and types of chemical engineering problems Problems at the end of each chapter ranging from simple to difficult allow readers to gradually build their skills whether they solve the problems themselves or in teams In addition the book s accompanying website lists the core principles learned from each problem both from a chemical engineering and a computational perspective Covering a broad range of disciplines and problems within chemical

engineering Introduction to Chemical Engineering Computing is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem Elementary Principles of Chemical Processes Richard M. Felder, Ronald W. Rousseau, Lisa G. Bullard, 2020-08-11 This best selling text 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 *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

Bioprocess Engineering Shijie Liu, 2020-04-07 Bioprocess Engineering Kinetics Sustainability and Reactor Design Third Edition is a systematic and comprehensive textbook on bioprocess kinetics molecular transformation bioprocess systems sustainability and reaction engineering The book reviews the relevant fundamentals of chemical kinetics batch and continuous reactors biochemistry microbiology molecular biology reaction engineering and bioprocess systems engineering introducing key principles that enable bioprocess engineers to engage in the analysis optimization selection of cultivation methods design and consistent control over molecular biological and chemical transformations The quantitative treatment of bioprocesses is the central theme in this text however more advanced techniques and applications are also covered Includes biological molecules and chemical reaction basics cell biology and genetic engineering Describes kinetics and catalysis at molecular and cellular levels along with the principles of fermentation Covers advanced topics and treatise in interactive enzyme and molecular regulations also covering solid catalysis Explores bioprocess kinetics mass transfer effects reactor analysis control and design **Chemical Engineering Progress**, 2008 Materials Physics and Chemistry Satya Bir Singh, Alexander V. Vakhruşev, A. K. Haghi, 2020-11-02 This volume focuses on the development and application of fundamental concepts in mechanics and physics of solids as they pertain to the solution of challenging new problems in diverse areas such as materials science and micro and nanotechnology In this volume emphasis is placed on the development of fundamental concepts of mechanics and novel applications of these concepts based on theoretical experimental or computational approaches drawing upon the various branches of engineering science and the allied areas within applied mathematics materials science and applied physics Materials Physics and Chemistry Applied Mathematics and Chemo Mechanical Analysis emphasizes the basics such as design equilibrium material behavior and geometry of deformation in simple structures or machines Readers will find a thorough treatment of stress strain and the stress strain relationships

Meanwhile it provides a solid foundation upon which readers can begin work in composite materials science and engineering. Many chapters include theory components with the equations students need to calculate different properties. Modeling, Analysis and Optimization of Process and Energy Systems 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. Chemical Engineering Education, 2004 *Chemical Process Engineering, Volume 2* A. Kayode Coker, Rahmat Sotudeh-Gharebagh, 2022-06-20 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.

Basic Principles and Calculations in Chemical Engineering David M. Himmelblau, James B. Riggs, 2012-05-31 The Number One Guide to Chemical Engineering Principles, Techniques, Calculations and Applications. Now Even More Current, Efficient and Practical. *Basic Principles and Calculations in Chemical Engineering* Eighth Edition goes far beyond traditional introductory chemical engineering topics, presenting applications that reflect the full scope of contemporary chemical, petroleum and environmental engineering. Celebrating its fiftieth Anniversary as the field's leading practical introduction, it has been extensively updated and reorganized to cover today's principles and calculations more

efficiently and to present far more coverage of bioengineering nanoengineering and green engineering Offering a strong foundation of skills and knowledge for successful study and practice it guides students through formulating and solving material and energy balance problems as well as describing gases liquids and vapors Throughout the authors introduce efficient consistent student friendly methods for solving problems analyzing data and gaining a conceptual application based understanding of modern chemical engineering processes This edition s improvements include many new problems examples and homework assignments Coverage includes Modular chapters designed to support introductory chemical engineering courses of any length Thorough introductions to unit conversions basis selection and process measurements Consistent sound strategies for solving material and energy balance problems Clear introductions to key concepts ranging from stoichiometry to enthalpy Behavior of gases liquids and solids ideal real gases single component two phase systems gas liquid systems and more Self assessment questions to help readers identify areas they don t fully understand Thought discussion and homework problems in every chapter New biotech and bioengineering problems throughout New examples and homework on nanotechnology environmental engineering and green engineering Extensive tables charts and glossaries in each chapte Many new student projects Reference appendices presenting atomic weights and numbers Pitzer Z factors heats of formation and combustion and more Practical readable and exceptionally easy to use Basic Principles and Calculations in Chemical Engineering Eighth Edition is the definitive chemical engineering introduction for students license candidates practicing engineers and scientists This is the digital version of the print title Access to the CD content that accompanies the print title is available through product registration See the instructions in back pages of your digital edition CD ROM INCLUDES The latest Polymath trial software for solving linear nonlinear and differential equations and regression problems Point and click physical property database containing 700 compounds Supplemental Problems Workbook containing 100 solved problems Descriptions and animations of modern process equipment Chapters on degrees of freedom process simulation and unsteady state material balances Expert advice for beginners on problem solving in chemical engineering

Electrical Engineer ,1890 **The American Marine Engineer** ,1914 **The Chemical Engineer** ,2007

Fundamental Concepts and Computations in Chemical Engineering Vivek Utgikar,2016-10-25 The Breakthrough Introduction to Chemical Engineering for Today s Students Fundamental Concepts and Computations in Chemical Engineering is well designed for today s chemical engineering students offering lucid and logically arranged text that brings together the fundamental knowledge students need to gain confidence and to jumpstart future success Dr Vivek Utgikar illuminates the day to day roles of chemical engineers in their companies and in the global economy He clearly explains what students need to learn and why they need to learn it and presents practical computational exercises that prepare beginning students for more advanced study Utgikar combines straightforward discussions of essential topics with challenging topics to intrigue more well prepared students Drawing on extensive experience teaching beginners he introduces each new topic in

simple relatable language and supports them with meaningful example calculations in Microsoft Excel and Mathcad Throughout Utgikar presents practical methods for effective problem solving and explains how to set up and use computation tools to get accurate answers Designed specifically for students entering chemical engineering programs this text also serves as a handy quick reference to the basics for more advanced students and an up to date source of valuable information for educators and professionals Coverage includes Where chemical engineering fits in the engineering field and overall economy Modern chemical engineering and allied industries and their largest firms How typical chemical engineering job functions build on what undergraduates learn The importance of computations and the use of modern computational tools How to classify problems based on their mathematical nature Fundamental fluid flow phenomena and computational problems in practical systems Basic principles and computations of material and energy balance Fundamental principles and calculations of thermodynamics and kinetics in chemical engineering How chemical engineering systems and problems integrate and interrelate in the real world Review of commercial process simulation software for complex large scale computation

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Practical Numerical Methods for Chemical Engineers Richard A. Davis, 2014-10-02 This NEW 3rd edition builds on the popular success of prior editions to expand the breadth of Practical Numerical Methods with more VBA macros that boost Excel's power for modeling and analysis Engineers scientists will find enhanced coverage of computational tools applicable to a wider variety of problems in their own disciplines Excel is the de facto computational tool used by practicing engineers scientists Use this book to become proficient with VBA programming customize your workbooks with time saving enhancements powerful numerical techniques Topics include an introduction to modeling Excel VBA programming root finding for systems of linear nonlinear equations eigenproblems derivative approximation optimization experimental uncertainty analysis least squares regression model validation interpolation integration ordinary partial differential equations A companion web site has digital files for downloading 200 illustrations examples the refined PNM3Suite workbook with 100 VBA user defined functions macros user forms for advanced numerical techniques End of chapter practice problems for self study are also available at the site www.d.umn.edu/~rdavis/PNM/PNMExcelVBA3 Example files macros are ready to be modified by users for their own needs The introduction includes a primer on chemical reaction engineering for problems involving mass energy balances with reactions The next two chapters cover frequently overlooked features of Excel VBA to apply numerical methods in Excel as well as document results The remaining chapters present powerful numerical techniques using Excel VBA Introduction to Numerical Methods Mathematical Modeling Introduction to Excel Documentation Graphing Worksheet Functions Validation Formatting What if Analysis VBA Editor Functions Sub Procedures Data Types Structured Programming Arithmetic Worksheet Functions Flow Control Arrays Communication Message Input Boxes User

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