

## 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.

# Excel Solutions To The Chemical Engineering Problem Set

**F. Carl Knopf**



## **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 *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 **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

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*Chemical Engineering Progress* ,2008 **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

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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 The Chemical Engineer, 2007 **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 **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 chapter 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

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