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This book, while satisfying the Common Core Curriculum in Measurement and Data, makes the world of chemical engineering accessible and entertaining. It teaches readers what chemical engineering is and why it's so important in our daily lives, such as enabling solar panels to promote green energy and the creation of consumer products such as Post-It notes. Readers also learn how chemical engineering has helped in medicine, such as by advancing prosthetics. Finally, a chapter dedicated to a hands-on exercise is also included, helping readers to understand how chemical engineering actually works.

Mathcad for Chemical Engineers demonstrates the use of Mathcad 13, which is the latest version of one of the most powerful and popular computational software packages in the world, for solving various chemical engineering problems. The book serves as a must-to-have guide and quick reference for chemical engineers and those who would like to learn and use Mathcad as their computational tool. This book can also be used as a textbook for chemical engineering education on computing using Mathcad. The book contains many real-life chemical engineering examples from various areas: material and energy balance, the thermodynamics, transport phenomena, kinetics and reactor design, unit operations, engineering economics, and operations management. Unlike other books of similar theme, concise, but comprehensive, explanations are given in each chapter and step-by-step procedures of solving mathematical problems are also given for quick reference. Many examples allow readers to experience the power of Mathcad in solving chemical engineering problems. The book has chapters on Mathcad fundamentals, solving a single algebraic equation and a system of algebraic equations, curve fitting, integrative and differentiation, solving a single ordinary differential equation (ODE) and a system of ODEs, solving a single partial differential equation (PDE) and a system of PDEs, and programming in Mathcad. There are a number of exercise problems at the end of each chapter that allow readers to further expose themselves to various chemical engineering problems. Although Mathcad 13 is the software package chosen by the authors and used throughout the book, most of the features discussed can also be applied using earlier versions of Mathcad. Furthermore, although Mathcad will always evolve into a newer version, most of the contents in this book will be applicable for any subsequent version of Mathcad.

Step-by-step instructions enable chemical engineers to masterkey software programs and solve complex problems Today, both students and professionals in chemical engineeringmust solve increasingly complex problems dealing with refineries,fuel cells, microreactors, and pharmaceutical plants, to name afew. With this book as their guide, readers learn to solve theseproblems using their computers and Excel, MATLAB, Aspen Plus, andCOMSOL Multiphysics. Moreover, they learn how to check theirsolutions and validate their results to make sure they have solvedthe problems correctly. Now in its Second Edition, Introduction to ChemicalEngineering Computing is based on the author's firsthandteaching experience. As a result, the emphasis is on problemsolving. Simple introductions help readers become conversant witheach program and then tackle a broad range of problems in chemicalengineering, 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, andexamples to guide readers through all the programs and types ofchemical engineering problems. Problems at the end of each chapter, ranging from simple to difficult, allow readers to gradually buildtheir skills, whether they solve the problems themselves or inteam. In addition, the book's accompanying website lists thecore principles learned from each problem, both from a chemicalengineering and a computational perspective. Covering a broad range of disciplines and problems withinchemical engineering, Introduction to Chemical EngineeringComputing is recommended for both undergraduate and graduatelstudents as well as practicing engineers who want to know how tochoose the right computer software program and tackle almost anychemical engineering problem.

This Second Edition of the go-to reference combines the classical analysis and modern applications of applied mathematics for chemical engineers. The book introduces traditional techniques for solving ordinary differential equations (ODEs), adding new material on approximate solution methods such as perturbation techniques and elementary numerical solutions. It also includes analytical methods to deal with important classes of finite-difference equations. The last half discusses numerical solution techniques and partial differential equations (PDEs). The reader will then be equipped to apply mathematics in the formulation of problems in chemical engineering. Like the first edition, there are many examples provided as homework and worked examples.

This volume in the Coulson and Richardson series in chemical engineering contains full worked solutions to the problems posed in volume 1. Whilst the main volume contains illustrative worked examples throughout the text, this book contains answers to the more challenging questions posed at the end of each chapter of the main text. These questions are of both a standard and non-standard nature, and so will prove to be of interest to both academic staff teaching courses in this area and to the keen student. Chemical engineers in industry who are looking for a standard solution to a real-life problem will also find the book of considerable interest. * An invaluable source of information for the student studying the material contained in Chemical Engineering Volume 1 * A helpful method of learning - answers are explained in full

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.

This book discusses and illustrates practical problem solving in the major areas of chemical and biochemical engineering and related disciplines using the novel software capabilities of POLYMATH, Excel, and MATLAB. Students and engineering/scientific professionals will be able to develop and enhance their abilities to effectively and efficiently solve realistic problems from the simple to the complex. This new edition greatly expands the coverage to include chapters on biochemical engineering, separation processes and process control. Recent advances in the POLYMATH software package and new book chapters on Excel and MATLAB usage allow for exceptional efficiency and flexibility in achieving problem solutions. All of the problems are clearly organized and many complete and partial solutions are provided for all three packages. A special web site provides additional resources for readers and special reduced pricing for the latest educational version of POLYMATH.

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