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These spreadsheets are accessible
by going to the Minerals
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Appendix III: Excel Spreadsheets for Formulae in Chapter 3

You would think you could export the spreadsheet to Excel, and you can — sort of. The graphs are a bit uglier, but even worse, the INDIRECT function chokes on column G in Excel 2007 and Excel ...

DSP Spreadsheet: FIR Filtering

Pumping of liquids is almost universal in chemical and petrochemical processes ... The chapter further provides the Excel spreadsheets for rating/sizing a centrifugal pump (Figure 5-61b), and to ...

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Chapter 5: Pumping of Liquids

In addition to learning how to solve engineering problems with pencil, paper, and calculator, we will also be doing computer solutions using WinGems (a pulp and paper industry-specific simulator), ...

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Laboratory work can involve potential exposure to radiological hazards, as well as to chemical and biological hazards ... Once in the group locker the excel spreadsheet can be opened. After changes ...

Radiation Safety Manual

This activity is part of our Engineering in the Classroom tool for educators ... download this standalone spreadsheet file and open in Microsoft Excel or Google Sheets.) 1. Prepare the materials:
...

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Getting Your CAPA House in Order

Your business's software developers can work with Microsoft's .NET framework to create powerful Excel macros for your spreadsheets. The .NET framework contains a vast library of classes that ...

How to Use .NET Class Library in Excel VBA

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Engineering
This is then automatically stored on Excel spreadsheets that retain all the calculations and the calling of web services that we put into the notebook. This means we can take a regular snapshot of the ...

Interview With Jean-Claude Bradley

To provide students with the skills needed to effectively use spreadsheet software. To provide students with the skills needed to effectively use database software. To provide students with the skills ...

CSE 148 Business Computing (3 credits)

For too long, Finance and Business

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Engineering
teams have had to adapt to expensive and complex tools or error-prone Excel spreadsheets to ... is bringing a world-class engineering team and an exceptional ...

Pigment accelerates growth to power the world's next unicorns and become the most used business planning tool with \$73M Series B

There was a time when a new version of Windows was a really big deal, such the launch of Windows 95 for which the tones of the Rolling Stones ' Start me up could be heard across all manner of ...

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The Great Windows 11 Computer Extinction Experiment

"We value our customer's input on Performio's product and use this information to inform our product roadmap and engineering ... or even Excel spreadsheets to manage their incentive compensation ...

Performio Releases New
Commission Software
Functionality and Announces
Global Partnership with
OpenSymmetry

The division created a short cartoon video about performing lab risk assessments and it can be downloaded at the ACS Division of Chemical Health and Safety ... provided the teachers with a

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The field of Chemical Engineering and its link to computer science is in constant evolution and new engineers have a variety of tools at their disposal to tackle their everyday problems. Introduction to Software for Chemical Engineers, Second Edition provides a quick guide to the use of various computer packages for chemical engineering applications. It covers a range of software applications from Excel and general mathematical packages such as MATLAB and MathCAD to process simulators, CHEMCAD and ASPEN, equation-based modeling languages, gProms, optimization

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Engineering software such as GAMS and AIMS, and specialized software like CFD or DEM codes. The different packages are introduced and applied to solve typical problems in fluid mechanics, heat and mass transfer, mass and energy balances, unit operations, reactor engineering, process and equipment design and control. This new edition offers a wider view of packages including open source software such as R, Python and Julia. It also includes complete examples in ASPEN Plus, adds ANSYS Fluent to CFD codes, Lingo to the optimization packages, and discusses Engineering Equation Solver. It offers a global idea of the capabilities of the software used in the chemical engineering field and provides

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Examples for solving real-world problems. Written by leading experts, this book is a must-have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software. Its user-friendly approach to simulation and optimization as well as its example-based presentation of the software, makes it a perfect teaching tool for both undergraduate and master levels.

Part I: Process design --
Introduction to design -- Process
flowsheet development -- Utilities
and energy efficient design --
Process simulation --
Instrumentation and process
control -- Materials of construction
-- Capital cost estimating --

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Engineering
Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

While teaching the Numerical Methods for Engineers course over the last 15 years, the author found a need for a new textbook, one that was less elementary,

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Engineering applications and problems better suited for chemical engineers, and contained instruction in Visual Basic® for Applications (VBA). This led to six years of developing teaching notes that have been enhanced to create the current textbook, Numerical Methods for Chemical Engineers Using Excel®, VBA, and MATLAB®. Focusing on Excel gives the advantage of it being generally available, since it is present on every computer—PC and Mac—that has Microsoft Office installed. The VBA programming environment comes with Excel and greatly enhances the capabilities of Excel spreadsheets. While there is no perfect programming system, teaching this combination offers knowledge in a widely available

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Engineering program that is commonly used (Excel) as well as a popular academic software package (MATLAB). Chapters cover nonlinear equations, Visual Basic, linear algebra, ordinary differential equations, regression analysis, partial differential equations, and mathematical programming methods. Each chapter contains examples that show in detail how a particular numerical method or programming methodology can be implemented in Excel and/or VBA (or MATLAB in chapter 10). Most of the examples and problems presented in the text are related to chemical and biomolecular engineering and cover a broad range of application areas including thermodynamics, fluid flow, heat transfer, mass transfer, reaction

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kinetics, reactor design, process design, and process control. The chapters feature "Did You Know" boxes, used to remind readers of Excel features. They also contain end-of-chapter exercises, with solutions provided.

"Spreadsheets in Science and Engineering" shows scientists and engineers at all levels how to analyze, validate and calculate data and how the analytical and graphic capabilities of spreadsheet programs (ExcelR) can solve these tasks in their daily work. The examples on the CD-ROM accompanying the book include material of undergraduate to current research level in disciplines ranging from chemistry and chemical engineering to

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Learn to fully harness the power of Microsoft Excel(r) to perform scientific and engineering calculations With this text as your guide, you can significantly enhance Microsoft Excel's(r) capabilities to execute the calculations needed to solve a variety of chemical, biochemical, physical, engineering, biological, and medicinal problems. The text begins with two chapters that introduce you to Excel's Visual Basic for Applications (VBA) programming language, which allows you to expand Excel's(r) capabilities, although you can still use the text without learning VBA. Following the author's step-by-step instructions, here are just a

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few of the calculations you learn to perform:

- * Use worksheet functions to work with matrices *
- Find roots of equations and solve systems of simultaneous equations *
- Solve ordinary differential equations and partial differential equations *
- Perform linear and non-linear regression *
- Use random numbers and the Monte Carlo method

This text is loaded with examples ranging from very basic to highly sophisticated solutions. More than 100 end-of-chapter problems help you test and put your knowledge to practice solving real-world problems. Answers and explanatory notes for most of the problems are provided in an appendix. The CD-ROM that accompanies this text provides several useful features: *

- * All the

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Engineering spreadsheets, charts, and VBA code needed to perform the examples from the text * Solutions to most of the end-of-chapter problems * An add-in workbook with more than twenty custom functions This text does not require any background in programming, so it is suitable for both undergraduate and graduate courses. Moreover, practitioners in science and engineering will find that this guide saves hours of time by enabling them to perform most of their calculations with one familiar spreadsheet package.

The fourth edition of Ludwig 's Applied Process Design for Chemical and Petrochemical Plants, Volume Three is a core reference for chemical, plant, and

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Engineering and provides an unrivalled reference on methods, process fundamentals, and supporting design data. New to this edition are expanded chapters on heat transfer plus additional chapters focused on the design of shell and tube heat exchangers, double pipe heat exchangers and air coolers. Heat tracer requirements for pipelines and heat loss from insulated pipelines are covered in this new edition, along with batch heating and cooling of process fluids, process integration, and industrial reactors. The book also looks at the troubleshooting of process equipment and corrosion and metallurgy. Assists engineers in rapidly analyzing problems and finding effective design methods

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and mechanical specifications
Definitive guide to the selection
and design of various equipment
types, including heat exchanger
sizing and compressor sizing, with
established design codes Batch
heating and cooling of process
fluids supported by Excel
programs

This text provides an introduction
to supercritical fluids with easy-to-
use Excel spreadsheets suitable
for both specialized-discipline
(chemistry or chemical
engineering student) and mixed-
discipline (engineering/economic
student) classes. Each chapter
contains worked examples, tip
boxes and end-of-the-chapter
problems and projects. Part I
covers web-based chemical

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Engineering resources, applications and simplified theory presented in a way that allows students of all disciplines to delve into the properties of supercritical fluids and to design energy, extraction and materials formation systems for real-world processes that use supercritical water or supercritical carbon dioxide. Part II takes a practical approach and addresses the thermodynamic framework, equations of state, fluid phase equilibria, heat and mass transfer, chemical equilibria and reaction kinetics of supercritical fluids. Spreadsheets are arranged as Visual Basic for Applications (VBA) functions and macros that are completely (source code) accessible for students who have interest in developing their own

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Engineering Programming is not required to solve problems or to complete projects in the text. Property worksheets/spreadsheets that are easy to use in learning environments Worked examples with Excel VBA Worksheet functions allow users to design their own processes Fluid phase equilibria and chemical equilibria worksheets allow users to change conditions, study new solutes, co-solvents, chemical systems or reactions

This book treats modeling and simulation in a simple way, that builds on the existing knowledge and intuition of students. They will learn how to build a model and solve it using Excel. Most chemical engineering students feel a shiver

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down the spine when they see a set of complex mathematical equations generated from the modeling of a chemical engineering system. This is because they usually do not understand how to achieve this mathematical model, or they do not know how to solve the equations system without spending a lot of time and effort. Trying to understand how to generate a set of mathematical equations to represent a physical system (to model) and solve these equations (to simulate) is not a simple task. A model, most of the time, takes into account all phenomena studied during a Chemical Engineering course. In the same way, there is a multitude of numerical methods that can be used to solve the same set of

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Equations generated from the modeling, and many different computational languages can be adopted to implement the numerical methods. As a consequence of this comprehensiveness and combinatorial explosion of possibilities, most books that deal with this subject are very extensive and embracing, making need for a lot of time and effort to go through this subject. It is expected that with this book the chemical engineering student and the future chemical engineer feel motivated to solve different practical problems involving chemical processes, knowing they can do that in an easy and fast way, with no need of expensive software.

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The most complete guide of its kind, this is the standard handbook for chemical and process engineers. All new material on fluid flow, long pipe, fractionators, separators and accumulators, cooling towers, gas treating, blending, troubleshooting field cases, gas solubility, and density of irregular solids. This substantial addition of material will also include conversion tables and a new appendix, "Shortcut Equipment Design Methods." This convenient volume helps solve field engineering problems with its hundreds of common sense techniques, shortcuts, and calculations. Here, in a compact, easy-to-use format, are practical tips, handy formulas, correlations,

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Engineering curves, charts, tables, and shortcut methods that will save engineers valuable time and effort. Hundreds of common sense techniques and calculations help users quickly and accurately solve day-to-day design, operations, and equipment problems.

A Practical Approach to Chemical Engineering for Non-Chemical Engineers is aimed at people who are dealing with chemical engineers or those who are involved in chemical processing plants. The book demystifies complicated chemical engineering concepts through daily life examples and analogies. It contains many illustrations and tables that facilitate quick and in-depth understanding of the

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Engineering
concepts handled in the book. By studying this book, practicing engineers (non-chemical), professionals, technicians and other skilled workers will gain a deeper understanding of what chemical engineers say and ask for. The book is also useful for engineering students who plan to get into chemical engineering and want to know more on the topic and any related jargon. Provides numerous graphs, images, sketches, tables, help better understanding of concepts in a visual way Describes complicated chemical engineering concepts by daily life examples and analogies, rather than by formula Includes a virtual tour of an imaginary process plant Explains the majority of units in chemical

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