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The Engineering with Excel text has been updated to reflect the latest versions of Excel and Windows (Excel 2010 operating in Windows 7). Changes from Excel 2007 to Excel 2010 can be described as refinement rather than major changes, but certain changes, such as the elimination of the Office button, have changed the way you use the program and the text has been updated to reflect the new approach.

Engineering with Excel Fourth Edition By RONALD W. LARSEN ...

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For introductory courses in Engineering and Computing Based on Excel 2007, Engineering with Excel, 3e takes a comprehensive look at using Excel in engineering. This book focuses on applications and is intended to serve as both a textbook and a reference for students.

For courses in Introduction to Engineering and Computer Methods for Engineers. Gives Students A Foundation In Excel Functions For Various Engineering Purposes Engineering With Excel , 5th Edition introduces students to all of the functions and ways to use Microsoft's Excel 2016 on Windows 10, the most up-to-date version of the program. The text gives students an understanding of the many ways Excel can be used for engineering purposes. Chapters on graphing, matrix operations, linear regressions and statistics give students a foundation in computational math, while sections on using excel for finance and extending it to other computer programs helps students apply Excel to their broader lives. Finally, students will learn to write their own excel functions.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. A highly visual, step-by-step approach to solving engineering problems with Excel. Specifically targeted at first-year engineering students, this text seeks to teach the basic Excel skills that undergraduates will use in the first few years of engineering courses. This book was written with the understanding that students get frustrated by multi-step procedures that illustrate only the final outcome. Ron Larsen, in his hallmark approach, provides screen images for each and every step allowing students to easily follow along as they try to perform each task.

This best-selling Spreadsheet book provides excellent coverage of all versions of Excel including the latest version, Excel 2002. It discusses how to use Excel to solve a variety of problems in introductory engineering analysis, such as graphing data, unit conversions, simple statistical analysis, sorting, searching and analyzing data, curve fitting, interpolation, solving algebraic equations, logical decisions, evaluating integrals, comparing economic alternatives, and finding optimum solutions. Numerous examples are included illustrating both traditional and spreadsheet solutions to a variety of problems. The underlying mathematical solution procedures are also discussed, so that the reader is provided with an understanding of what the spreadsheet does and how it does it.

Take Excel to the next level Excel is the world's leading spreadsheet application. It's a key module in Microsoft Office—the number-one productivity suite—and it is the number-one business intelligence tool. An Excel dashboard report is a visual presentation of critical data and uses gauges, maps, charts, sliders, and other graphical elements to present complex data in an easy-to-understand format. Excel Data Analysis For Dummies explains in depth how to use Excel as a tool for analyzing big data sets. In no time, you'll discover how to mine and analyze critical data in order to make more informed business decisions. Work with external databases, PivotTables, and Pivot Charts Use Excel for statistical and financial functions and data sharing Get familiar with Solver Use the Small Business Finance Manager If you're familiar with Excel but lack a background in the technical aspects of data analysis, this user-friendly book makes it easy to start putting it to use for you.

This latest edition expands Practical Numerical Methods (PNM) with more VBA to boost Excel's power for modeling and analysis using the same numerical techniques found in specialized math software. Visit the companion web site for more details and additional content: www.d.umn.edu/~rdavis/PNM Download the book's Excel and VBA files and learn how to customize your own Excel workbooks: Get the PNMSuite A refined macro-enabled Excel workbook with a suite of over 200 VBA user-defined functions, macros, and user-forms for learning VBA and implementing advanced numerical methods in Excel. Work through the hundreds of examples, illustrations, and animations from the book available in downloadable Excel files that demonstrate applied numerical methods in Excel. Customize the example Excel worksheets and VBA code to tackle your own problems. Try the practice problems for a self-guided study to sharpen your Excel and VBA skills. The first chapter sets up the background for practical problem solving using numerical methods. The next two chapters cover frequently overlooked features of Excel and VBA for implementing numerical methods in Excel and documenting results. The remaining chapters present powerful numerical techniques using Excel and VBA to find roots to individual and systems of linear and nonlinear equations, evaluate derivatives, perform optimization, model data by regression and interpolation, assess model fidelity, analyze risk and uncertainty, perform integration, and solve ordinary and partial differential equations. This new edition builds on the success of previous editions with 20% new content and updated features in the latest editions of Excel!

Introduction to Optimum Design, Third Edition describes an organized approach to engineering design optimization in a rigorous yet simplified manner. It illustrates various concepts and procedures with simple examples and demonstrates their applicability to engineering design problems. Formulation of a design problem as an optimization problem is emphasized and illustrated throughout the text. Excel and MATLAB® are featured as learning and teaching aids. Basic concepts of optimality conditions and numerical methods are described with simple and practical examples, making the material highly teachable and learnable Includes applications of optimization methods for structural, mechanical, aerospace, and industrial engineering problems Introduction to MATLAB Optimization Toolbox Practical design examples introduce students to the use of optimization methods early in the book New example problems throughout the text are enhanced with detailed illustrations Optimum design with Excel Solver has been expanded into a full chapter New chapter on several advanced optimum design topics serves the needs of instructors who teach more advanced courses

You too can understand the statistics of life, even if you're math-challenged! What do you need to calculate? Manufacturing output? A curve for test scores? Sports stats? You and Excel can do it, and this non-intimidating guide shows you how. It demystifies the different types of statistics, how Excel functions and formulas work, the meaning of means and medians, how to interpret your figures, and more — in plain English. Getting there — learn how variables, samples, and probability are used to get the information you want Excel tricks — find out what's built into the program to help you work with Excel formulas Playing with worksheets — get acquainted with the worksheet functions for each step Graphic displays — present your data as pie graphs, bar graphs, line graphs, or scatter plots What's normal? — understand normal distribution and probability Hying hypotheses — learn to use hypothesis testing with means and variables When regression is progress — discover when and how to use regression for forecasting What are the odds — work with probability, random variables, and binomial distribution Open the book and find: Ten statistical and graphical tips and traps The difference between descriptive and inferential statistics Why graphs are good How to measure variations What standard scores are and why they're used When to use two-sample hypothesis testing How to use correlations Different ways of working with probability

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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 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 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.

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