

Mechanical Engineering Calculations Excel

Helen Zhang, David Jin, X.J. Zhao

Engineering with Excel Ronald W. Larsen, 2011-04 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.

What Every Engineer Should Know About Excel J. P. Holman, 2006-06-09 With the many software packages available today, it's easy to overlook the computational and graphics capabilities offered by Microsoft® Excel™. The software is nearly ubiquitous and understanding its capabilities is an enormous benefit to engineers in almost any field and at all levels of experience. *What Every Engineer Should Know About Excel* offers in nine self-contained chapters a practical guide to the features and functions that can be used, for example, to solve equations and systems of equations, build charts and graphs, create line drawings, and perform optimizations. The author uses examples and screenshots to walk you through the steps and build a strong understanding of the material. With this book, you will learn how to... Set up the keyboard for direct entry of most math and Greek symbols Build a default scatter graph that is applicable to most simple presentations with little cosmetic modification Apply many types of formats to adjust the cosmetics of graphs Use 3D surface and area charts for data and functional representations, with associated cosmetic adjustments Correlate data with various types of functional relations Use line drawing tools to construct simple schematics or other diagrams Solve linear and nonlinear sets of equations using multiple methods Curve student grades using Excel probability functions Model device performance using different types of regression analysis involving multiple variables Manipulate Excel financial functions Calculate retirement accumulation with variable contribution rate and retirement payouts to match increases in inflation Apply Excel methods for optimization problems with both linear and nonlinear relations Use pivot tables to manipulate both experimental data and analytical relationships Calculate experimental uncertainties using Excel And much more!

Excel for Scientists and Engineers E. Joseph Billo, 2007-03-16 Learn to fully harness the power of Microsoft Excel® to perform scientific and engineering calculations With this text as your guide, you can significantly enhance Microsoft Excel's® 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® 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

Mechanics of Materials Bichara B. Muvdi,Souhail Elhouar,2016-09-19 Mechanics of Materials: With Applications in Excel® covers the fundamentals of the mechanics of materials—or strength of materials—in a clear and easily understandable way. Each chapter explains the theory of the underlying principles and the applicable mathematical relations, offering examples that illustrate the application of the mathematical relations to physical situations. Then, homework problems—arranged from the simplest to the most demanding—are presented, along with a number of challenging review problems, to ensure comprehension of key concepts. What makes this book unique is that it also instills practical skills for developing Microsoft Excel applications to solve mechanics of materials problems using numerical techniques. Mechanics of Materials: With Applications in Excel® provides editable Excel spreadsheets representing all the examples featured in the text, PowerPoint lecture slides, multimedia simulations, graphics files, and a solutions manual with qualifying course adoption.

Applied Mechanics, Materials and Mechanical Engineering Helen Zhang,David Jin,X.J. Zhao,2013-08-30 Selected, peer reviewed papers from the 2013 International Conference on Applied Mechanics, Materials and Mechanical Engineering (AMME 2013), August 24-25, Wuhan, China

Thermal Engineering Studies with Excel, Mathcad and Internet Valery Ochkov,Konstantin Orlov,Volodymyr Voloshchuk,2016-02-05 This book provides the fundamentals of the application of mathematical methods, modern computational tools (Excel, Mathcad, SMath, etc.), and the Internet to solve the typical problems of heat and mass transfer, thermodynamics, fluid dynamics, energy conservation and energy efficiency. Chapters cover the technology for creating and using databases on various properties of working fluids, coolants and thermal materials. All calculation methods are provided with links to online computational pages where data can be inserted and recalculated. It discusses tasks involving the

generation of electricity at thermal, nuclear, gas turbine and combined-cycle power plants, as well as processes of co- and trigeneration, conditioning facilities and heat pumps. This text engages students and researchers by using modern calculation tools and the Internet for thermal engineering applications.

Statistics and Probability for Engineering Applications William DeCoursey, 2003-05-14 Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job* Contains hundreds of solved problems and case studies, using real data sets* Avoids unnecessary theory

Engineering Computations Joseph C. Musto, William E. Howard, Richard R. Williams, 2009-01-01 The strength of Engineering Computation is its combination of the two most important computational programs in the engineering marketplace today, MATLAB® and Excel®. Engineering students will need to know how to use both programs to solve problems. The focus of this text is on the fundamentals of engineering computing: algorithm development, selection of appropriate tools, documentation of solutions, and verification and interpretation of results. To enhance instruction, the companion website includes a detailed set of PowerPoint slides that illustrate important points reinforcing them for students and making class preparation easier.

Soil Strength and Slope Stability J. Michael Duncan, Stephen G. Wright, Thomas L. Brandon, 2014-09-22 The definitive guide to the critical issue of slope stability and safety Soil Strength and Slope Stability, Second Edition presents the latest thinking and techniques in the assessment of natural and man-made slopes, and the factors that cause them to survive or crumble. Using clear, concise language and practical examples, the book explains the practical aspects of geotechnical engineering as applied to slopes and embankments. The new second edition includes a thorough discussion on the use of

analysis software, providing the background to understand what the software is doing, along with several methods of manual analysis that allow readers to verify software results. The book also includes a new case study about Hurricane Katrina failures at 17th Street and London Avenue Canal, plus additional case studies that frame the principles and techniques described. Slope stability is a critical element of geotechnical engineering, involved in virtually every civil engineering project, especially highway development. Soil Strength and Slope Stability fills the gap in industry literature by providing practical information on the subject without including extraneous theory that may distract from the application. This balanced approach provides clear guidance for professionals in the field, while remaining comprehensive enough for use as a graduate-level text. Topics include: Mechanics of soil and limit equilibrium procedures Analyzing slope stability, rapid drawdown, and partial consolidation Safety, reliability, and stability analyses Reinforced slopes, stabilization, and repair The book also describes examples and causes of slope failure and stability conditions for analysis, and includes an appendix of slope stability charts. Given how vital slope stability is to public safety, a comprehensive resource for analysis and practical action is a valuable tool. Soil Strength and Slope Stability is the definitive guide to the subject, proving useful both in the classroom and in the field.

Chemical Engineering Design Gavin Towler, Ray Sinnott, 2012-01-25 Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: - Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. - New discussion of conceptual plant design, flowsheet development and revamp design - Significantly increased coverage of capital cost estimation, process costing and economics - New chapters on equipment selection, reactor design and solids handling

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Engineering with Mathcad Brent Maxfield,2006-11-18 Using the author's considerable experience of applying Mathcad to engineering problems, *Engineering with Mathcad* identifies the most powerful functions and features of the software and teaches how to apply these to create comprehensive engineering calculations. Many examples from a variety of engineering fields demonstrate the power and utility of Mathcad's tools, while also demonstrating how other software, such as Microsoft Excel spreadsheets, can be incorporated effectively. This simple, step-by-step approach makes this book an ideal Mathcad text for professional engineers as well as engineering and science students. A CD-ROM packaged with the book contains all the examples in the text and an evaluation version of the Mathcad software, enabling the reader to learn by doing and experiment by changing parameters.* Identifies the key Mathcad functions for creating comprehensive engineering calculations* A step-by-step approach enables easy learning for professional engineers and students alike* Includes a CD-ROM containing all the examples in the text and an evaluation version of the Mathcad software

Recent Advances in Mechanical Engineering S. Narendranth,P. G. Mukunda,U. K. Saha,2022-05-24 The book presents the select proceedings of the Third International Conference on Emerging Research in Civil, Aeronautical and Mechanical Engineering (ERCAM 2021) and focuses on the broad themes of mechanical and aeronautical engineering. The book covers research developments in the field of materials, mechanics, structures, systems and sustainability. Various topics covered in this book include smart and multifunctional composite materials, nano materials, computational mechanics, solid mechanics, kinematics and dynamics, fatigue, fracture and life cycle analysis, smart structures-vibration and noise control, vibration, acoustics and condition monitoring, thermal/fluid systems and analysis. The book will be useful for students, researchers and professionals working in the various areas of mechanical engineering.

Machine Designer's Reference J. Marrs,2012-03-09 One-of-a-Kind Tool Speeds Mechanical Design Work Designers at all levels of experience need a handy, comprehensive reference that helps them get the job done faster... and better. *Machine Designers Reference* by J. Marrs fulfills the need, and then some. This hardcover 716-page volume benefits from the author's 20 years of experience as a working mechanical designer. The result is 12 chapters organized in a very practical way (click

the TOC button, above). This popular work is packed with essential charts and tables. Here are some of the features:

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Excel Scientific and Engineering Cookbook David M Bourg,2006-01-17 Given the improved analytical capabilities of Excel, scientists and engineers everywhere are using it--instead of FORTRAN--to solve problems. And why not? Excel is installed on millions of computers, features a rich set of built-in analyses tools, and includes an integrated Visual Basic for Applications (VBA) programming language. No wonder it's today's computing tool of choice. Chances are you already use Excel to perform some fairly routine calculations. Now the Excel Scientific and Engineering Cookbook shows you how to leverage Excel to perform more complex calculations, too, calculations that once fell in the domain of specialized tools. It does so by putting a smorgasbord of data analysis techniques right at your fingertips. The book shows how to perform these useful tasks and others: Use Excel and VBA in general Import data from a variety of sources Analyze data Perform calculations Visualize the results for interpretation and presentation Use Excel to solve specific science and engineering problems Wherever possible, the Excel Scientific and Engineering Cookbook draws on real-world examples from a range of scientific disciplines such as biology, chemistry, and physics. This way, you'll be better prepared to solve the problems you face in your everyday scientific or engineering tasks. High on practicality and low on theory, this quick, look-up reference provides instant solutions, or recipes, to problems both basic and advanced. And like other books in O'Reilly's popular Cookbook format, each recipe also includes a discussion on how and why it works. As a result, you can take comfort in knowing that complete, practical answers are a mere page-flip away.

Senior Design Projects in Mechanical Engineering Yongsheng Ma,Yiming Rong,2021-11-10 This book offers invaluable insights about the full spectrum of core design course contents systematically and in detail. This book is for instructors and students who are involved in teaching and learning of 'capstone senior design projects' in mechanical engineering. It consists of 17 chapters, over 300 illustrations with many real-world student project examples. The main project processes are grouped into three phases, i.e., project scoping and specification, conceptual design, and detail design, and each has dedicated two chapters of process description and report content prescription, respectively. The basic principles and engineering process flow are well applicable for professional development of mechanical design engineers. CAD/CAM/CAE technologies are commonly used within many project examples. Thematic chapters also cover student teamwork organization and evaluation, project management, design standards and regulations, and rubrics of course activity grading. Key criteria of successful course accreditation and graduation attributes are discussed in details. In summary, it is a handy textbook for the capstone design project course in mechanical engineering and an insightful teaching guidebook for engineering design instructors.

The Practical Model Calculator, for the Engineer, Mechanic, Machinist, Etc Oliver Byrne,1852

Python for Mechanical and Aerospace Engineering Alexander Kenan,2020-12-13 Learn some of Python's most popular libraries like BeautifulSoup, Matplotlib, Numpy, Requests, and Tkinter by scraping a website for aluminum alloy information, graphing satellite orbits, creating a GUI to convert different units, plotting airfoil coordinates, publishing programs to PDF, and more!

Advances in Mechanical Engineering Alexander N. Evgrafov,2020-02-29 This book draws together the most interesting recent results to emerge in mechanical engineering in Russia, providing a fascinating overview of the state of the art in the field in that country which will be of interest to a wide readership. A broad range of topics and issues in modern engineering are discussed, including dynamics of machines, materials engineering, structural strength and tribological behavior, transport technologies, machinery quality and innovations. The book comprises selected papers presented at the 8th conference Modern Engineering: Science and Education, held at the Saint Petersburg State Polytechnic University in May 2019 with the support of the Russian Engineering Union. The authors are experts in various fields of engineering, and all of the papers have been carefully reviewed. The book will be of interest to mechanical engineers, lecturers in engineering disciplines and engineering graduates.

VBA and Macros Bill Jelen,Tracy Syrstad,2010 Provides a step-by-step guide to using Visual Basic for Applications (VBA) and macros to import data and produce reports in Microsoft Excel 2010.

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