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The object of this book is to quickly teach an electrical engineer or technologist how to use Mathcad. Mathcad simultaneously solves and documents calculations. It is oriented toward non-programmers who need to solve numerical engineering problems. Users like Mathcad because its programs follow the natural format of manual calculations. Complete keystroke-to-keystroke details are provided for problem solution and documentation. The reader learns by example. As a calculating tool, Mathcad solves equations. The equations are entered into Mathcad in a format similar to that used in manual calculations. It will solve mesh equations with real or complex numbers and will solve differential equations. Outputs can be numerical or graphical. Mathcad will also do symbolic calculations, meaning that it can reduce complex systems of equations to simpler equations. Documenting calculations is a major reason that Mathcad is used in modern industry. Calculations that in the past might have been recorded in notebooks, or even on easily lost scraps of paper, are now done with Mathcad to take advantage of the accuracy, neatness, traceability, and standardization it provides. Mathcad is available in a free 30 day demonstration version. The key features of Mathcad can be learned in 30 days.

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

This CD-ROM contains 3 Mathcad electronic books covering key areas in electrical engineering. It provides hundreds of standard calculation procedures, formulae and reference tables used by electrical engineers.

This comprehensive book illustrates how MathCAD can be used to solve many mathematical tasks, and provides the mathematical background to the MathCAD package. Based on the latest Version 8 Professional for Windows, this book Market: contains many solutions to basic mathematical tasks and is designed to be used as both a reference and tutorial for lecturers and students, as well as a practical manual for engineers, mathematicians and computer scientists.

Now you can design a learning package that fits your introductory engineering course perfectly with The Engineer's Toolkit: A First Course in Engineering. The Engineer's Toolkit is Prentice Hall's innovative publishing program for introductory engineering. Consisting of modules that cover engineering skills and concepts, programming languages and software tools, The Engineer's Toolkit is a flexible solution for keeping up with the evolving curriculum of first-year engineering.

Electrical Engineering 101 covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

Designed to support interactive teaching and computer assisted self-learning, this second edition of Electrical Energy Conversion and Transport is thoroughly updated to address the recent environmental effects of electric power generation and transmission, which have become more important together with the deregulation of the industry. New content explores different power generation methods, including renewable energy generation (solar, wind, fuel cell) and includes new sections that discuss the upcoming Smart Grid and the distributed power generation using renewable energy generation, making the text essential reading material for students and practicing engineers.

Windows-Version

Written for the practicing electronics professional, Tolerance Analysis of Electronic Circuits Using MATHCADä offers a comprehensive, step-by-step treatment of methods used to perform analyses essential to the design process of circuit cards and systems of cards, including: worst-case analysis, limits for production testing, component stress analysis, determining if a design meets specification limits, and manufacturing yield analysis Using a practical approach that allows engineers and technicians to put the

techniques directly into practice, the author presents the mathematical procedures used to determine performance limits. The topics and techniques discussed include extreme value and root-sum-square analysis using symmetric and asymmetric tolerance, Monte Carlo analysis using normal and uniform distributions, sensitivity formulas, tolerance analyses of opamp offsets, and anomalies of high-Q ac circuits.

Programming for Electrical Engineers: MATLAB and Spice introduces beginning engineering students to programming in Matlab and Spice through engaged, problem-based learning and dedicated electrical and computer engineering content. The book draws its problems and examples specifically from electrical and computer engineering, covering such topics as circuit analysis, signal processing, and filter design. It teaches relevant computational techniques in the context of solving common problems in electrical and computer engineering, including mesh and nodal analysis, Fourier transforms, and phasor analysis. Programming for Electrical Engineers: MATLAB and Spice is unique among MATLAB textbooks for its dual focus on introductory-level learning and discipline-specific content in electrical and computer engineering. No other textbook on the market currently targets this audience with the same attention to discipline-specific content and engaged learning practices. Although it is primarily an introduction to programming in MATLAB, the book also has a chapter on circuit simulation using Spice, and it includes materials required by ABET Accreditation reviews, such as information on ethics, professional development, and lifelong learning. Discipline-specific: Introduces Electrical and Computer Engineering-specific topics, such as phasor analysis and complex exponentials, that are not covered in generic engineering Matlab texts Accessible: Pedagogically appropriate for freshmen and sophomores with little or no prior programming experience Scaffolded content: Addresses both script and functions but emphasizes the use of functions since scripts with non-scoped variables are less-commonly encountered after introductory courses Problem-centric: Introduces MATLAB commands as needed to solve progressively more complex EE/ECE-specific problems, and includes over 100 embedded, in-chapter questions to check comprehension in stages and support active learning exercises in the classroom Enrichment callouts: "Pro Tip" callouts cover common ABET topics, such as ethics and professional development, and "Digging Deeper" callouts provide optional, more detailed material for interested students

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