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$d_{bar_{11}} = 1.40$ $A_{s11} = 1.20$
 $d_{bar_{12}} = 1.80$ $A_{s12} = 1.20$
 $d_{bar_{13}} = 2.20$ $A_{s13} = 4.0$

$\lambda_{min} = 1.7$ $f_y = 60000$ $f_{cp} = 5000$
 $n = 10$ $\lambda = 1$ $\theta = 9$
 $d_{bar} = d_{bar_j}$ $d_{strip} = d_{bar_j}$ $A_{s1} = A_{s_j}$

$M_u = 273.6$

$\rho_{min} = 0.2 \frac{f_y}{f_c} = 0.017$ $R_n = \rho_{min} f_y \left(1 - \frac{\rho_{min} f_y}{1.7 f_c} \right) = 882.353$

$\lambda_{min} = \frac{M_u \cdot 12}{\phi R_n} = 4.11 < 10^3$

$j = 1, 2, 3$ $i = 1, 2, 3$

$b_j = 10$ $b_j = b_{j-1} + 2$ $d_j = \sqrt{\frac{M_u \cdot 12000}{\phi \cdot b_j \cdot R_n}}$

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$f_{cp} = 5000$ $f_y = 60000$ $\text{cover} = 1.5$
 $n = 10$ $\lambda = 1$ $\theta = 9$
 $d_{bar} = d_{bar_j}$ $A_{s1} = A_{s_j}$ $d_{strip} = d_{bar_j}$

$M_u = 273.6$

$\rho_{min} = 0.2 \cdot \frac{f_y}{f_c} = 0.017$

$R_n = \rho_{min} \cdot f_y \cdot \left(1 - \frac{\rho_{min} \cdot f_y}{1.7 \cdot f_c} \right) = 882.353$

$j = 1, 2, 3$
 $i = 2, 3, 5$

$b_j = 10$
 $b_j = b_j + 2$ **Can't input b_i**

$d_j = \sqrt{\frac{M_u \cdot 12000}{\phi \cdot b_j \cdot R_n}}$

Mathcad 14 User Guide

TriStar, Incorporated



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Mathcad User's Guide Mathsoft, Inc,1997 *Mathcad 3.1 User's Guide* ,1992 Allows user to work with formulas numbers text and graphs *Mathcad 14. 0 Quick Reference Guide* TriStar, Incorporated,2009 **Mathcad PLUS 5.0 User's Guide** ,1994 **The Finite Element Method** Darrell W. Pepper,Juan C. Heinrich,2017-04-11 This self explanatory guide introduces the basic fundamentals of the Finite Element Method in a clear manner using comprehensive examples Beginning with the concept of one dimensional heat transfer the first chapters include one dimensional problems that can be solved by inspection The book progresses through more detailed two dimensional elements to three dimensional elements including discussions on various applications and ending with introductory chapters on the boundary element and meshless methods where more input data must be provided to solve problems Emphasis is placed on the development of the discrete set of algebraic equations The example problems and exercises in each chapter explain the procedure for defining and organizing the required initial and boundary condition data for a specific problem and computer code listings in MATLAB and MAPLE are included for setting up the examples within the text including COMSOL files Widely used as an introductory Finite Element Method text since 1992 and used in past ASME short courses and AIAA home study courses this text is intended for undergraduate and graduate students taking Finite Element Methodology courses engineers working in the industry that need to become familiar with the FEM and engineers working in the field of heat transfer It can also be used for distance education courses that can be conducted on the web Highlights of the new edition include Inclusion of MATLAB MAPLE code listings along with several COMSOL files for the example problems within the text Power point presentations per chapter and a solution manual are also available from the web Additional introductory chapters on the boundary element method and the meshless method Revised and updated content Simple and easy to follow guidelines for understanding and applying the Finite Element Method Mathcad Mathsoft, Inc,2001 *Fundamentals of Process Safety Engineering* Samarendra Kumar Biswas,Umesh Mathur,Swapan Kumar Hazra,2021-08-16 This textbook covers the essential aspects of process safety engineering in a practical and comprehensive manner It provides readers with an understanding of process safety hazards in the refining and petrochemical industries and how to manage them in a reliable and professional manner It covers the most important concepts static electricity intensity of thermal radiation thermodynamics of fluid phase equilibria boiling liquid expanding vapor explosion BLEVE emission source models hazard identification methods risk control and methods for achieving manufacturing excellence while also focusing on safety Extensive case studies are included Aimed at senior undergraduate and graduate chemical engineering students and practicing engineers this book covers process safety principles and engineering practice authoritatively with comprehensive examples Fundamentals methods and procedures for the industrial practice of process safety engineering The thermodynamic fundamentals and computational methods for release rates from ruptures in pipelines vessels and relief valves Fundamentals of static electricity hazards and their

mitigation Quantitative assessment of fires and explosions Principles of dispersion calculations for toxic or flammable gases and vapors Methods of qualitative and quantitative risk assessment and control **Chemists' Guide to Effective Teaching** Norbert J. Pienta, Melanie M. Cooper, Thomas J. Greenbowe, 2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who teaches chemistry or is learning to teach it this book examines applications of learning theories presenting actual techniques and practices that respected professors have used to implement and achieve their goals Each chapter is written by a chemist who has expertise in the area and who has experience in applying those ideas in their classrooms This book is a part of the Prentice Hall Series in Educational Innovation for Chemistry Discrete-Signal Analysis and Design William E. Sabin, 2008-02-04 A clear step by step approach to practical uses of discrete signal analysis and design especially for communications and radio engineers This book provides an introduction to discrete time and discrete frequency signal processing which is rapidly becoming an important modern way to design and analyze electronics projects of all kinds It presents discrete signal processing concepts from the perspective of an experienced electronics or radio engineer which is especially meaningful for practicing engineers technicians and students The approach is almost entirely mathematical but at a level that is suitable for undergraduate curriculums and also for independent at home study using a personal computer Coverage includes First principles including the Discrete Fourier Transform DFT Sine cosine and theta Spectral leakage and aliasing Smoothing and windowing Multiplication and convolution Probability and correlation Power spectrum Hilbert transform The accompanying CD ROM includes Mathcad v 14 Academic Edition which is reproduced with permission and has no time limitation for use providing users with a sophisticated and world famous tool for a wide range of applied mathematics capabilities Discrete Signal Analysis and Design is written in an easy to follow conversational style and supplies readers with a solid foundation for more advanced literature and software It employs occasional re examination and reinforcement of particularly important concepts and each chapter contains self study examples and full page Mathcad Worksheets worked out and fully explained **Introduction to Electric Circuits** Richard C. Dorf, James A. Svoboda, 2000-09-07 Praised for its readability this comprehensive text shows how the analysis and design of electric circuits are inseparably intertwined with the ability of the engineer to design complex electronic communication computer and control systems as well as consumer products Throughout the author presents circuits as the results of real invention and the answers to real needs in industry the office and the home **Mathcad 8**, 1998 *IEEE Circuits & Devices*, 1995 *Power Electronics Technology and Applications II* Fred C. Lee, 1997 A sequel to Power Electronics Technology and Applications this text is targeted specifically towards the needs of practicing design engineers The focus is to provide the practicing engineer with up to date technology and emerging applications **PC Magazine**, 1992 *PESC '96*, 1996 *Restructuring--America and Beyond* Masoud Sanayei, 1995 This collection contains 306 papers on structural engineering presented at Structures Congress XIII held in

Boston Massachusetts April 2 5 1995 **Electronics World + Wireless World** ,1994 Proceedings of the 2002 International Symposium on Symbolic and Algebraic Computation Marc Giusti,International Symposium on Symbolic and Algebraic Computation,2002 *Microstrip Filters for RF / Microwave Applications* Jia-Shen G. Hong,M. J. Lancaster,2004-03-24 Advanced specialized coverage of microstrip filter design *Microstrip Filters for RF Microwave Applications* is the only professional reference focusing solely on microstrip filters It offers a unique and comprehensive treatment of filters based on the microstrip structure and includes full design methodologies that are also applicable to waveguide and other transmission line filters The authors include coverage of new configurations with advanced filtering characteristics new design techniques and methods for filter miniaturization The book utilizes numerous design examples to illustrate and emphasize computer analysis and synthesis while also discussing the applications of commercially available software Other highlights include Lowpass and bandpass filters Highpass and bandstop filters Full wave electromagnetic simulation Advanced materials and technologies Coupled resonator circuits Computer aided design for low cost high volume production Compact filters and filter miniaturization *Microstrip Filters for RF Microwave Applications* is not only a valuable design resource for practitioners but also a handy reference for students and researchers in microwave engineering

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