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Numerical Methods in Engineering - Pramote Dechaumphai 2011
NUMERICAL METHODS IN ENGINEERING: Theories with MATLAB, Fortran, C and Pascal Programs presents a clear, easy-to-understand manner on introduction and the use of numerical methods. The book contains nine chapters with materials that are essential for studying the subject. The book starts from introducing the numerical methods and describing their importance for analyzing engineering problems. The methods for finding roots of linear and nonlinear equations are presented with examples. Some of these methods are very effective and implemented in commercial software. The methods for interpolation, extrapolation and least-squares regression are explained. Numerical integration and differentiation methods are presented to demonstrate their benefits for solving complicate functions. Several methods for analyzing both the ordinary and partial differential equations are then presented. These methods are simple and work well for problems that have regular geometry. For problems with complex geometry, the finite element method is preferred. The finite element method for analyzing one- and two- dimensional problems is explained in the last chapter. Numerous examples are illustrated to increase understanding of these methods for analyzing different types of problems. Computer programs corresponding to the computational procedures of these methods are provided. The programs are written in MATLAB, Fortran, C and Pascal, so that readers can use the preferred language for their study. These computer programs can also be modified to use in other courses and research work.
Applied Numerical Methods for Engineers and Scientists - Singiresu S. Rao 2002
This comprehensive book includes over 800 problems including open ended, project type and design problems. Chapter topics include Introduction to Numerical Methods; Solution of Nonlinear Equations; Simultaneous Linear Algebraic Equations; Solution of Matrix Eigenvalue Problem; Curve Fitting and Interpolation; Statistical Methods; Numerical Differentiation; Numerical Integration; Numerical Solution of Ordinary Differential Equations: Initial Value Problems; Numerical Solution of Ordinary Differential Equations: Boundary Value Problems; Numerical Solution of Partial Differential Equations; Numerical Methods of Optimization ;Finite Element Method. This book is intended as a reference for numerical methods in engineering.
Numerical Methods in Photonics - Andrei V. Lavrinenko 2018-09-03
Simulation and modeling using numerical methods is one of the key instruments in any scientific work. In the field of photonics, a wide range of numerical methods are used for studying both fundamental optics and applications such as design, development, and optimization of photonic components. Modeling is key for developing improved photonic devices and reducing development time and cost. Choosing the appropriate computational method for a photonics modeling problem requires a clear understanding of the pros and cons of the available numerical methods. Numerical Methods in Photonics presents six of the most frequently used methods: FDTD, FDFD, 1+1D nonlinear propagation, modal method, Green's function, and FEM. After an introductory chapter outlining the basics of Maxwell's equations, the book includes self-contained chapters that focus on each of the methods. Each method is accompanied by a review of the mathematical principles in which it is based, along with sample scripts, illustrative examples of characteristic problem solving, and exercises. MATLAB® is used throughout the text. This book provides a solid basis to practice writing your own codes. The theoretical formulation is complemented by sets of exercises, which allow you to grasp the essence of the modeling tools.
Numerical Methods in Engineering and Science - B. S. Grewal 2018-07-19
This book is intended as an introduction to numerical methods for scientists and engineers. Providing an excellent balance of theoretical and applied topics, it shows the numerical methods used with C, C++, and MATLAB. * Provides a balance of theoretical and applied topics * Shows the numerical methods used with C, C++, and MATLAB
Control the Crazy - Vinny Guadagnino 2013-01-08
Vinny Guadagnino, star of Jersey Shore, discusses his lifelong struggle to control the effects of social anxiety and stress, and teaches readers the tools and techniques he's used to stay calm and maintain his sanity in all types of crazy situations--both on and off the show. For more than a decade Vinny has been keeping a secret from his family, his friends, his castmates, and his fans: the fact that he's not as carefree and stress-free as he appears. Vinny suffers from panic attacks that strike without warning. They plagued him throughout his teens, forced him to move home from college, and tormented him during the first season of Jersey Shore. After fleeing the set during the filming of the fifth season of the show, Vinny realized he could no longer keep his problems to himself. It was time to speak out. In this book, Vinny discusses how he's confronted his demons head on, and he gives readers the tools to do so themselves. For the millions of his fans who are also feeling overwhelmed with the world around them and by their own thoughts, Vinny offers a practical plan for taking control of your life, your body, and your mind.
Electronic Circuit Analysis - K. Lal Kishore 2008

Textbook of Environmental Science and Technology - M Anji Reddy 2014-10-31
The following new chapters are added - Environmental Policy, Legislation, Rules and Regulations - Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) - Technological Solutions for Pollution Control is added - Towards Sustainable Future