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Applied Numerical Methods with MATLAB for Engineers and Scientists, (Third Edition)

By Steven C. Chapra

Tata McGraw-Hill Education Pvt. Ltd., 2015. Softcover. Book Condition: New. 5th or later edition. 16 x 24 cm. Steven Chapra`s Applied Numerical Methods with MATLAB, third edition, is written for engineering and science students who need to learn numerical problem solving. Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB. The book is designed for a one-semester or one-quarter course in numerical methods typically taken by undergraduates. The third edition features new chapters on Eigenvalues and Fourier Analysis and is accompanied by an extensive set of m-files and instructor materials. TABLE OF CONTENTS: Part One: Modeling, Computers, and Error Analysis Chapter 1: Mathematical Modeling, Numerical Methods and Problem Solving Chapter 2: MATLAB Fundamentals Chapter 3: Programming with MATLAB Chapter 4: Roundoff and Truncation Errors Part Two: Roots and Optimization Chapter 5: Roots: Bracketing Methods Chapter 6: Roots: Open Methods Chapter 7: Optimization Part Three: Linear Systems Chapter 8: Linear Algebraic Equations and Matrices Chapter 9: Gauss Elimination Chapter 10: LU Factorization Chapter 11: Matrix Inverse and Condition Chapter 12: Iterative Methods Chapter 13: Eigenvalues Part Four: Curve Fitting Chapter 14: Linear Regression Chapter 15: General Linear Least-Squares and Nonlinear Regression Chapter 16: Fourier...



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