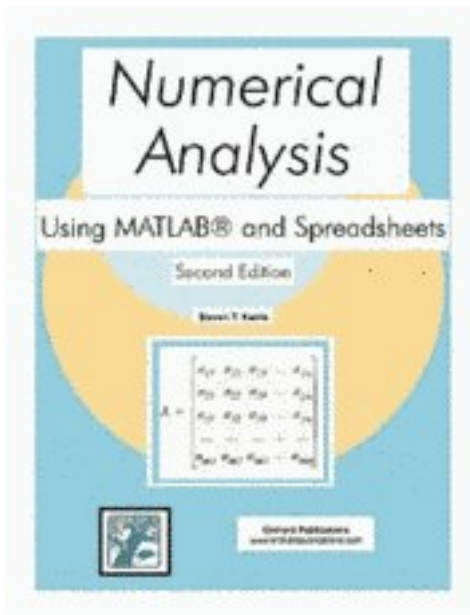# Numerical Analysis Using MATLAB and Excel

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This text includes the following chapters and appendices: Introduction to MATLAB Root Approximations Sinusoids and Complex Numbers Matrices and Determinants Review of Differential Equations Fourier, Taylor, and Maclaurin Series Finite Differences and Interpolation Linear and Parabolic Regression Solution of Differential Equations by Numerical Methods Integration by Numerical Methods Difference Equations Partial Fraction Expansion The Gamma and Beta Functions Orthogonal Functions and Matrix Factorizations Bessel, Legendre, and Chebyshev Polynomials Optimization Methods Difference Equations in Discrete-Time Systems Introduction to Simulink Ill-Conditioned Matrices Each chapter contains numerous practical applications supplemented with detailed instructions for using MATLAB and/or Excel to obtain accurate and quick solutions.

作者介绍:

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