



Numerical Analysis Using MATLAB and Spreadsheets

Steven Karris

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This text provides complete, clear, and detailed explanations of the principal numerical analysis methods and well known functions used in science and engineering. These are illustrated with many practical examples. It includes the following chapters:

- o Introduction to MATLAB
- o Root Approximations and Partial Fraction Expansion
- o Sinusoids and Complex Numbers
- o Matrices and Determinants
- o Review of Differential Equations
- o Power Series
- o Linear and Parabolic Regression
- o Solution of Differential Equations by Numerical Methods
- o Integration by Numerical Methods
- o Difference Equations
- o Gamma & Beta Functions and Distributions
- o Bessel, Legendre, and Chebyshev Polynomials
- o Optimization Methods

Each chapter contains numerous practical applications supplemented with detailed instructions for using MATLAB® and/or Microsoft Excel® to obtain accurate and quick solutions.

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