



## Mathematical Analysis Using MATLAB (Paperback)

By Levy P

Createspace Independent Publishing Platform, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This book develops topics of linear algebra and geometry using MATLAB. It emphasizes the following content: Functions of One Variable Polynomials Roots of Scalar Functions Solving a Nonlinear Equation in One Variable Derivatives Convolution Polynomial Curve Fitting Characteristic Polynomials Computational Geometry Triangulation Representations 2-D and 3-D Domains Delaunay Triangulation Point Location Searching Non-Delaunay Triangulations Voronoi Diagrams Convex Hulls Interpolation Interpolation of 2-D Selections in 3-D Grids Scattered Data Interpolation Using a Specific Delaunay Triangulation Extrapolating Scattered Data Extrapolation of 3-D Data Optimization Optimizing Nonlinear Functions Minimizing Functions of One Variable Minimizing Functions of Several Variables fminsearch Algorithm Maximizing Functions Curve Fitting via Optimization Curve Fitting by Optimization Output Functions Plot Functions Function Handles Calculus Ordinary Differential Equations Initial Value Problems Types of Solvers Troubleshooting Types of DDEs Constant Delay DDEs Time-Dependent and State-Dependent DDEs DDEs of Neutral Type DDE of Neutral Type Initial Value DDE of Neutral Type Boundary-Value Problems BVP Solver Partial Differential Equations Function Summary PDE Solver Integration to Find Arc Length Fourier Transforms.



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