



## Applied Numerical Analysis Using MATLAB (2nd Edition)

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Pearson, 2007. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Contents Preface 1 Foundations 1 1.1 Introductory Examples 1.1.1 Nonlinear Equations 1.1.2 Linear Systems 1.1.3 Numerical Integration 1.2 Useful Background 1.2.1 Results from Calculus 1.2.2 Results from Linear Algebra 1.2.3 A Little Information 1.3.1 Error 1.3.2 Convergence 1.3.3 Getting Better Results 1.4 Using MATLAB 1.4.1 Command Window Computations 1.4.2 M-Files 1.4.3 Programming in MATLAB 1.4.4 Matrix Multiplication 1.5 Chapter Wrap-Up 2 Functions of One Variable 47 2.1 Bisection Method 2.2 Secant-Type Methods 2.2.1 Regula Falsi 2.2.2 Secant Method 2.2.3 Analysis 2.3 Newtons Method 2.4 Mullers Method 2.5 Minimization 2.5.1 Golden-Section Search 2.5.2 Brents Method 2.6 Beyond the Basics 2.6.1 Using MATLABs Functions 2.6.2 Laguerres Method 2.6.3 Zeros of a Nonlinear Function 2.7 Chapter Wrap-Up 3 Solving Linear Systems: Direct Methods 95 3.1 Gaussian Elimination 3.1.1 Basic Method 3.1.2 Row Pivoting . 3.2 Gauss-Jordan 3.2.1 Inverse of a Matrix 3.3 Tridiagonal Systems 3.4 Further Topics 3.4.1 MATLABs Methods 3.4.2 Condition of a Matrix 3.4.3 Iterative Refinement 3.5 Chapter Wrap-Up 4 LU and QR Factorization 135 4.1 LU Factorization 4.1.1 Using Gaussian Elimination 4.1.2 Direct LU Factorization 4.1.3 Applications 4.2 Matrix Transformations 4.2.1 Householder Transformation 4.2.2...



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