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Crossover Frequency ""; ""3.17 Transformation of System Models ""; ""3.18 Bode Diagrams of Systems Defined in State Space""; ""3.19 Nyquist Plots of a System Defined in State Space ""; ""3.20 Transient-Response Analysis in State Space "" ""3.21 Response to Initial Condition in State Space "" ""3.22 Example Problems and Solutions ""; ""References ""; ""Problems ""; ""Chapter 4. Numerical Methods ""; ""4.1 Introduction""; ""4.2 System of Linear Algebraic Equations ""; ""4.3 Gauss Elimination Method""; ""4.4 LU Decomposition Methods ""; ""4.5 Choleski's Decomposition ""; ""4.6 Gauss-Seidel Method""; ""4.7 Gauss-Jordan Method ""; ""4.8 Jacobi Method""; ""4.9 The Householder Factorization""; ""4.10 Symmetric Matrix Eigenvalue Problems ""; ""4.11 Jacobi Method""; ""4.12 Householder Reduction to Tridiagonal Form"" ""4.13 Sturn Sequence "" ""4.14 QR Method""; ""4.15 Example Problems and Solutions ""; ""References ""; ""Problems ""; ""Chapter 5. Optimization""; ""5.1 Introduction""; ""5.2 Conjugate Gradient Methods ""; ""5.3 Newton's Method""; ""5.4 The Concept of Quadratic Convergence ""; ""5.5 Powell's Method ""; ""5.6 Fletcher-Reeves Method ""; ""5.7 Hooke and Jeeves Method ""; ""5.8 Interior Penalty Function Method ""; ""5.9 Example Problems and Solutions ""; ""References ""; ""Problems ""; ""Chapter 6. Direct Numerical Integration Methods""; ""6.1 Introduction "" ""6.2 Single-Degree of Freedom System""

Sommario/riassunto

About the Book: This book presents an introduction to MATLAB and its applications in engineering problem solving. The book is designed as an introductory course in MATLAB for engineers. The classical methods of electrical circuits, control systems, numerical methods, optimization, direct numerical integration methods, engineering mechanics and mechanical vibrations are covered using MATLAB software. The numerous worked examples and unsolved exercise problems are intended to provide the reader with an awareness of the general applicability to electrical circuits, control systems, numerical methods, optimization, direct numerical integration methods, engineering mechanics and mechanical vibrations using MATLAB. Extensive references to guide the student to further sources of information on electrical circuits, control systems, numerical methods, optimization, direct numerical integration methods, engineering mechanics, and mechanical vibrations using MATLAB is provided at the end of each chapter. Contents: MATLAB Basics Electrical Circuits Control Systems Numerical Methods Optimization Direct Numerical Integration Methods Engineering Mechanics Mechanical Vibration