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(Dorothy Daugherty)

NUMERICAL ANALYSIS FOR SCIENTISTS AND ENGINEERS: THEORY AND C PROGRAMS

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Narosa Publishing House, 2012. Softcover. Book Condition: New. 5th or later edition. Numerical Analysis for Scientists and Engineers develops the subject gradually by illustrating several examples for both the beginners and the advanced readers using very simple language. The classical and recently developed numerical methods are derived from mathematical and computational points of view. Different aspects of errors in computation are discussed in detailed. Some finite difference operators and different techniques to solve difference equations are presented here. Various types of interpolation, including cubic-spline, methods and their applications are introduced. Direct and iterative methods for solving algebraic and transcendental equations, linear system of equations, evaluation of determinant and matrix inversion, computation of eigenvalues and eigenvectors of a matrix are well discussed in this book. Detailed concept of curve fitting and function approximation, differentiation and integration (including Monte Carlo method) are given. Many numerical methods to solve ordinary and partial differential equations with their stability and analysis are also presented. The algorithms and programs in C are designed for most of the numerical methods. This book is also suitable for competitive examinations like NET, GATE and SLET, etc. Key Features A complete course of Numerical Analysis Perfect for self-study and class room use Useful for beginners as well as experts More than 250 worked examples Algorithms for important methods Programs for most of the methods Large number of exercises Suitable for GATE, NET, SLET etc. examinations Table of Contents Preface / List of Algorithms and Programs / Errors in Numerical Computations / Calculus of Finite Differences and Difference Equations / Interpolation / Solution of Algebraic and Transcendental Equations / Solution of System of Linear Equations / Eigenvalues and Eigenvectors of a Matrix / Differentiation and Integration / Ordinary Differential Equations / Partial Differential Equations / Least Squares Approximation / Bibliography /...



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