



Introduction to Applied Numerical Analysis (Paperback)

By Richard W. Hamming

Dover Publications Inc., United States, 2012. Paperback. Condition: New. Reprint. Language: English . Brand New Book. This book by a prominent mathematician is appropriate for a single-semester course in applied numerical analysis for computer science majors and other upper-level undergraduate and graduate students. Although it does not cover actual programming, it focuses on the applied topics most pertinent to science and engineering professionals. An extensive range of topics includes round-off and function evaluation, real zeros of a function, simultaneous linear equations and matrices, interpolation and roundoff estimation, integration, and ordinary differential equations. Additional subjects include optimization, least squares, orthogonal functions, Fourier series, Chebyshev approximation, and random processes. The author stresses the teaching of mathematical concepts through visual aids, and numerous diagrams and illustrations complement the text.

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