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Textbook

An Introduction to Numerical Methods and Analysis, 2nd Edition

James F. Epperson

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". . . carefully structured with many detailed worked examples." [_The Mathematical Gazette](#)

The Second Edition of the highly regarded An Introduction to Numerical Methods and Analysis provides a fully revised guide to numerical approximation. The book continues to be accessible and expertly guides readers through the many available techniques of numerical methods and analysis.

An Introduction to Numerical Methods and Analysis, Second Edition reflects the latest trends in the field, includes new material and revised exercises, and offers a unique emphasis on applications. The author clearly explains how to both construct and evaluate approximations for accuracy and performance, which are key skills in a variety of fields. A wide range of

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higher-level methods and solutions, including new topics such as the roots of polynomials, spectral collocation, finite element ideas, and Clenshaw-Curtis quadrature, are presented from an introductory perspective, and the Second Edition also features:

Chapters and sections that begin with basic, elementary material followed by gradual coverage of more advanced material

Exercises ranging from simple hand computations to challenging derivations and minor proofs to programming exercises

Widespread exposure and utilization of MATLAB

An appendix that contains proofs of various theorems and other material

The book is an ideal textbook for students in advanced undergraduate mathematics and engineering courses who are interested in gaining an understanding of numerical methods and numerical analysis.