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Computational Methods for Numerical Analysis with R is an overview of traditional numerical analysis topics presented using R. This guide shows how common functions from linear algebra, interpolation, numerical integration, optimization, and differential equations can be implemented in pure R code. Every algorithm described is given with a complete function implementation in R, along with examples to demonstrate the function and its use. Computational Methods for Numerical Analysis with R is intended for those who already know R, but are interested in learning more about how the underlying algorithms work. As such, it is suitable for statisticians, economists, and engineers, and others with a computational and numerical background.

"The subject matter of the book has been organized in two parts covering the syllabi of both first and second semester."--Pref.

This well-respected text gives an introduction to the theory and application of modern numerical approximation techniques for students taking a one- or two-semester course in numerical analysis. With an accessible treatment that only requires a calculus prerequisite, Burden and Faires explain how, why, and when approximation techniques can be expected to work, and why, in some situations, they fail. A wealth of examples and exercises develop students' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. The first book of its kind built from the ground up to serve a diverse undergraduate audience, three decades later Burden and Faires remains the definitive introduction to a vital and practical subject. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Numerical Methods in Engineering with Python, a student text, and a reference for practicing engineers.

This book is a concise and lucid introduction to computer oriented numerical methods with well-chosen graphical illustrations that give an insight into the mechanism of various methods. The book develops computational algorithms for solving non-linear algebraic equation, sets of linear equations, curve-fitting, integration, differentiation, and solving ordinary differential equations. OUTSTANDING FEATURES | Elementary presentation of numerical methods using computers for solving a variety of problems for students who have only basic level knowledge of mathematics. | Geometrical illustrations used to explain how numerical algorithms are evolved. | Emphasis on implementation of numerical algorithm on computers. | Detailed discussion of IEEE standard for representing floating point numbers. | Algorithms derived and presented using a simple English based structured language. | Truncation and rounding errors in numerical calculations explained. | Each chapter starts with learning goals and all methods illustrated with numerical examples. | Appendix gives pointers to open source libraries for numerical computation.

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