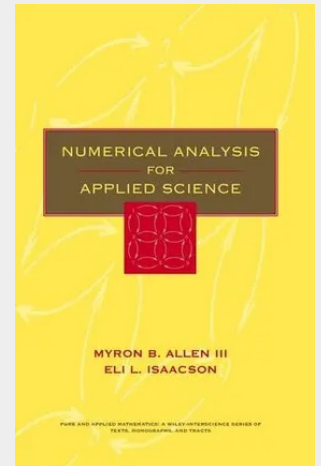


Numerical Analysis for Applied Science

Written for graduate students in applied mathematics, engineering and science courses, the purpose of this book is to present topics in "Numerical Analysis" and "Numerical Methods." It will combine the material of both these areas as well as special topics in modern applications. Included at the end of each chapter are a variety of theoretical and computational exercises.

Dieser Abriß der numerischen Analysis und numerischen Methoden ist vor allem für fortgeschrittene Studenten der angewandten Mathematik, Ingenieur- und Naturwissenschaften gedacht. Jedes Kapitel wird durch ein Vielzahl theoretischer und rechnerischer Übungsaufgaben ergänzt. (11/97)

Combines the Rigor of a Numerical Analysis Text with the Practical Guidance of a Methods Text Numerical Analysis for Applied Science is a graduate-level text suitable for both scientists and engineers as well as applied mathematicians. Each chapter begins with the motivation and construction of the methods under discussion, moves on to practical considerations associated with their implementation, and concludes with an in-depth treatment of rigorous mathematical details. The chapter-end problem sets include both theoretical and computational exercises. The authors provide a broad selection of current numerical methods, especially those used in scientific computation involving differential equations. The text also introduces many topics often omitted in books at this level, including: * Multidimensional interpolation * Quasi-Newton methods * Multigrid methods * QR methods of eigenvalues * Finite elements * And many more



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