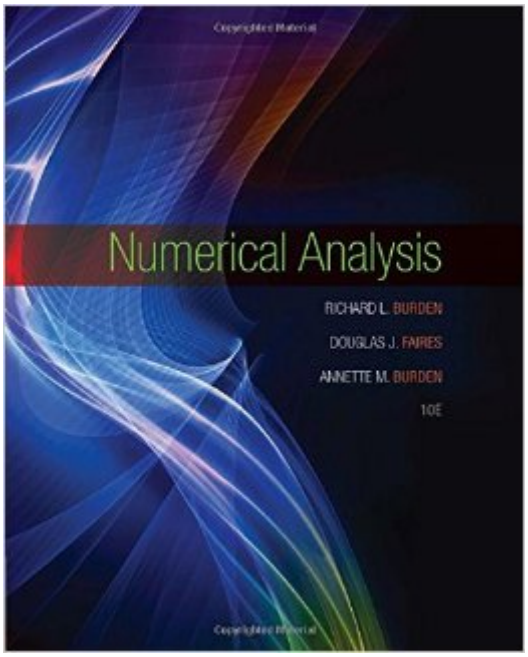
Numerical Analysis



Synopsis

This well-respected book introduces readers to the theory and application of modern numerical approximation techniques. Providing an accessible treatment that only requires a calculus prerequisite, the authors 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 readers' intuition, and demonstrate the subject's practical applications to important everyday problems in math, computing, engineering, and physical science disciplines. Three decades after it was first published, Burden, Faires, and Burden's NUMERICAL ANALYSIS remains the definitive introduction to a vital and practical subject.

Book Information

Hardcover: 896 pages
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Average Customer Review: 3.5 out of 5 starsÂ Â See all reviewsÂ (4 customer reviews)
Best Sellers Rank: #46,314 in Books (See Top 100 in Books) #19 inÂ Books > Science & Math > Mathematics > Mathematical Analysis #68 inÂ Books > Science & Math > Mathematics > Pure Mathematics > Algebra > Elementary #126 inÂ Books > Textbooks > Science & Mathematics > Mathematics > Algebra & Trigonometry

Customer Reviews

Good but not great. Contained quite a few errors in computations, etc, that derailed a couple examples into wrong answers (replacing 2 with sqrt(2), etc, not sure how that doesn't become immediately obvious). Really verbose where it doesn't need to be; it strikes me as a textbook where the author was paid based on how many words they use.I like the layout of the book though, and in true numerical analysis style it includes a good bit of help for the computational side; Maple code, algorithm descriptions, etc. The content is standard -- but ultimately I'd recommend to find another (Atkinson, maybe).

Excellent book so far. I have had this for 14 hours. One of my already owned Numerical Analysis

books has a 1985 copyright. This one by Burden already far exceeds the 1985 effort. I find complete mathematical explanations inside this tenth edition. As I continue to use this book in my professional role, I will have more to write about I am sure. One thing that is an excellent help is the inside cover of the book is a listing of the Algorithms by name, then the section and page number to see the details. I agree with other reviewers that the less than five star ratings are from people who are not expecting to use math in Numerical Analysis. The cold hard reality is that math knowledge is highly important in the Numerical Analysis area of Computer Science and Software Engineering. I already predict heavy use in the next few months both professionally and personal projects.

A good book only if with proper notation and non-verbose explaination

I purchased the wrong edition. I started to get behind and Wil need this book until spring semester.