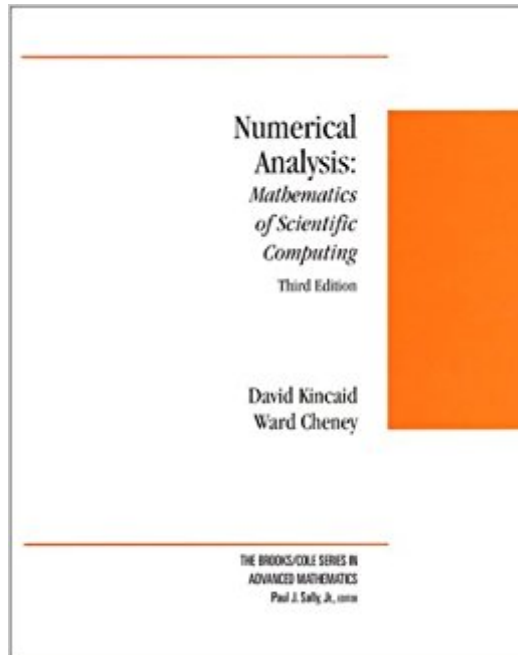




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# Numerical Analysis: Mathematics Of Scientific Computing



## Synopsis

This highly successful and scholarly book introduces readers with diverse backgrounds to the various types of mathematical analysis that are commonly needed in scientific computing. The subject of numerical analysis is treated from a mathematical point of view, offering a complete analysis of methods for scientific computing with careful proofs and scientific background. An in-depth treatment of the topics of numerical analysis, a more scholarly approach, and a different menu of topics sets this book apart from the authors' well-respected and best-selling text:

NUMERICAL MATHEMATICS AND COMPUTING, FOURTH EDITION.

## Book Information

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## Customer Reviews

David Kincaid is Senior Lecturer in the Department of Computer Sciences at the University of Texas at Austin. Also, he is the Interim Director of the Center for Numerical Analysis (CNA) within the Institute for Computational Engineering and Sciences (ICES). Ward Cheney is Professor of Mathematics at the University of Texas at Austin. His research interests include approximation theory, numerical analysis, and extremum problems.

this book is not that great. It doesn't explain things very well and its riddled with errors. I had this book for Numerical Analysis and numerous times my teacher had to inform me that the book was actually wrong.... so long ago though. Couldn't possibly remember exactly what and I suppose its

possible that those mistakes were fixed in later versions. Not sure, but for me it wasn't the greatest tool for learning.

Fast shipping best quality

I bought the book when I was a master student at a math department. I took Numerical Analysis I and II in undergraduate. But this book was a little higher and difficult at the beginning. But once I used to it, I like it. And the algorithms are very useful if you are a Matlab user. You can directly write the codes from pseudo-codes into Matlab. The book has a little bit more proofs than you can find in any other Numerical Analysis book. But the reader can easily grasp them in a few readings...After all, I am very glad that I know this book, and it will be always a nice reference book for me in the future as well.

It took a little bit to get to my school, but it was exactly what I needed! Overall pleased!

Arrived as expected.

Good source of explanations for complicated topics. Sometimes the point of view is a little too numerical. A few good examples.

Bought this as a textbook for my class. The book is pretty well-organized and easy to read. I like it. I was reading some other books of Numerical Analysis, and they are pretty old, maybe that's why they are less organized than this one.

If you are a graduate student then this book might appeal to you. But if you are actually trying to use the book for some purposeful end, it will probably disappoint. The first problem is that it uses lots and lots of mathematical symbols, as well as plenty of abstruse matrix transformations. If you are studying for your PhD then you probably will have no trouble. The next problem is that the book is pretty much page after page of solid proofs. The proofs are essentially meaningless; they are presented without context and are rarely used for anything except building other proofs. In the places where numerical examples are presented, they are so brief and cryptic as to be unintelligible. Believe it or not, the same authors wrote another book, *Numerical Mathematics and Computing* - it covers almost exactly the same material, but in a more down-to-earth way. If

you are determined to read Numerical Analysis, then I would highly recommend that you read the other book first. Instead of having copious proofs, the other book spends its time reviewing the mathematical methods required to apply the material, as well as reviewing the notation.

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