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Numerical Methods

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Richard L. Burden

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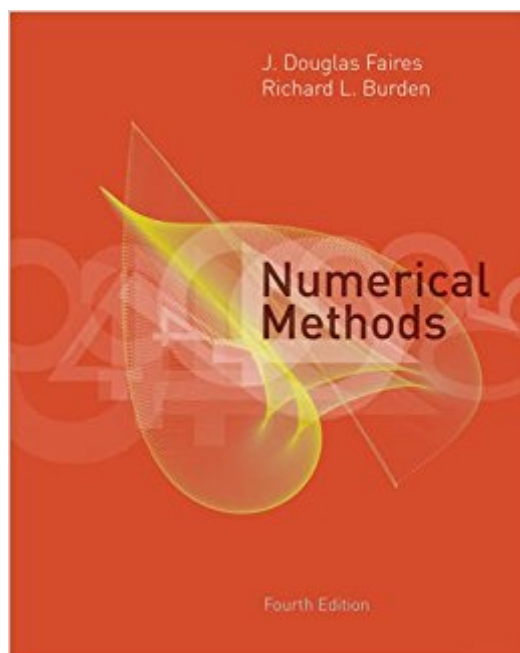
Fourth Edition

Synopsis

NUMERICAL METHODS, Fourth Edition emphasizes the intelligent application of approximation techniques to the type of problems that commonly occur in engineering and the physical sciences. Readers learn why the numerical methods work, what kinds of errors to expect, and when an application might lead to difficulties. The authors also provide information about the availability of high-quality software for numerical approximation routines. The techniques are the same as those covered in the authors' top-selling Numerical Analysis text, but this text provides an overview for students who need to know the methods without having to perform the analysis. This concise approach still includes mathematical justifications, but only when they are necessary to understand the methods. The emphasis is placed on describing each technique from an implementation standpoint, and on convincing the reader that the method is reasonable both mathematically and computationally.

Book Information

Hardcover: 608 pages

Publisher: Brooks Cole; 4 edition (April 23, 2012)

Language: English

ISBN-10: 0495114766

ISBN-13: 978-0495114765

Product Dimensions: 1 x 8.5 x 10.2 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 3.1 out of 5 stars   4 customer reviews

Best Sellers Rank: #440,500 in Books (See Top 100 in Books)   #340 inà Books > Science & Math > Mathematics > Mathematical Analysis   #5310 inà Books > Textbooks > Science & Mathematics > Mathematics

Customer Reviews

J. Douglas Faires is a Professor of Mathematics at Youngstown State University. His research interests include analysis, numerical analysis, and mathematics history. Dr. Faires has won many awards, including Outstanding College-University Teacher of Mathematics, Ohio Section of MAA (1996) and Youngstown State University, Distinguished Professor for Teaching (1995-1996).Richard L. Burden is Emeritus Professor of Mathematics at Youngstown State University. His master's degree in mathematics and doctoral degree in mathematics, with a specialization in numerical analysis, were both awarded by Case Western Reserve University. He

also earned a masters degree in computer science from the University of Pittsburgh. His mathematical interests include numerical analysis, numerical linear algebra, and mathematical statistics. Dr. Burden has been named a distinguished professor for teaching and service three times at Youngstown State University. He was also named a distinguished chair as the chair of the Department of Mathematical and Computer Sciences. He wrote the Actuarial Examinations in Numerical Analysis from 1990 until 1999.

This book is horrible. The whole point of a text book is for someone to be able to learn the material that it presents and this book fails at this. It uses terminology that you can follow, but this same terminology is far more complex than it needs to be. Also, all of the examples in this book skip far to many steps, which makes it incredibly hard to learn from the examples. For instance, this book has an example for the Neville algorithm, but it only describes how to do the first part. To make matters worse, this book is way to expensive for a student.Horrible book and shame on those that make students use this book.

thank you

I'm amazed at some of the junk text books out on college campuses. I would avoid this if its possible.

The existing reviews were somewhat off-putting when I started preparing for the postgrad course that uses this book. I am now halfway through the semester (and the book) and I must say I actually like the book.While we have not, and will not, cover every single method in the book, my experience so far is that the methods are actually explained quite clearly. Sometimes things can get a little confusing (e.g. the way indices are used to explain Romberg integration confused me a lot), and sometimes you will need to read a section multiple times before things become clear. But I put that down to the method itself, not the book. So far the examples in the book have helped me a lot to make sense of the methods presented and subsequently code things up in MATLAB myself. More examples is always better, but I have not seen a need for that (so far anyway).Would I recommend the book for an undergrad course? Probably not, the book would need to include more step-by-step examples for that. Lastly, the electronic edition I am using actually looks great formatting wise. Not really important, but not unimportant either. The book is of course way, way too expensive.Note: I am renting the electronic version through a different provider due to the cost.

Numerical Methods in Biomedical Engineering 11+ Maths and Numerical Reasoning: Eureka! Challenging Exam Questions with full step-by-step methods, tips and tricks (Eureka! Challenging Maths and ... Questions for the Modern 11+ Exam) (Volume 3) Numerical Methods for Engineers (Civil Engineering) Applied Numerical Methods W/MATLAB: for Engineers & Scientists Traffic Flow Theory: Characteristics, Experimental Methods, and Numerical Techniques Numerical Methods for Engineers and Scientists An Introduction to Programming and Numerical Methods in MATLAB Numerical Methods for Unconstrained Optimization and Nonlinear Equations (Classics in Applied Mathematics) Stochastic Models, Information Theory, and Lie Groups, Volume 1: Classical Results and Geometric Methods (Applied and Numerical Harmonic Analysis) Stochastic Models, Information Theory, and Lie Groups, Volume 2: Analytic Methods and Modern Applications (Applied and Numerical Harmonic Analysis) Applied Numerical Methods with MATLAB for Engineers and Scientists Applied Numerical Methods for Engineers and Scientists Numerical Methods for Scientists and Engineers (Dover Books on Mathematics) Numerical Methods Numerical Methods: Design, Analysis, and Computer Implementation of Algorithms A Student's Guide to Numerical Methods Numerical Methods for Engineers and Scientists Using MATLABÃ Â®, Second Edition Numerical Algorithms: Methods for Computer Vision, Machine Learning, and Graphics Numerical Methods for Engineers and Scientists, Second Edition, Numerical Partial Differential Equations: Finite Difference Methods (Texts in Applied Mathematics)