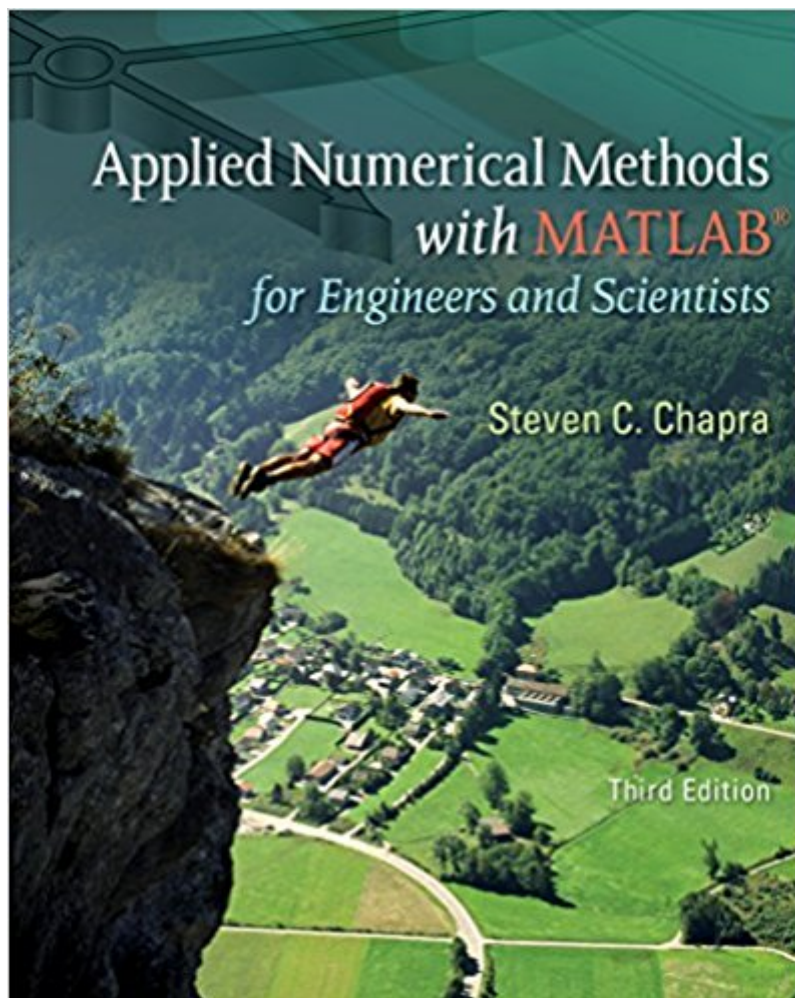




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# Applied Numerical Methods W/MATLAB: For Engineers & Scientists



## Synopsis

Steven Chapra's Applied Numerical Methods with MATLAB, third edition, is written for engineering and science students who need to learn numerical problem solving. Theory is introduced to inform key concepts which are framed in applications and demonstrated using MATLAB. The book is designed for a one-semester or one-quarter course in numerical methods typically taken by undergraduates. The third edition features new chapters on Eigenvalues and Fourier Analysis and is accompanied by an extensive set of m-files and instructor materials.

## Book Information

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## Customer Reviews

Steven C. Chapra (Medford, MA) is Professor of Civil and Environmental Engineering, Tufts University.

For the amount I saved on this book, the pages could have been made of wax paper and I would have been fine with it. The book came in great condition, no torn or missing pages, and the book matched up well with the u.s edition. My only complaint is that the sections that read code are very light and hard to see as the book comes in black and white, and I'm assuming those sections were originally printed in a bright color. Overall, if you're a college student with no money and somewhat decent grasp on MATLAB, I highly recommend this edition.

This book is 100% useless and frustrating unless you 1) only need to be able to do the methods on matlab, not by hand or 2) have a teacher that actually teaches the concepts in class. Rather than tell

you step-by-step how to solve a problem using the method described, they give you exactly one crappy, over complicated example that requires an in depth knowledge of physics before you can even set out to learn what they're trying to teach you. You then have to infer how to use the method given the example. For instance, I am sitting here trying to use eigenvalues to solve for the amplitude of some springs and masses without having the foggiest idea how they got the equation for the springs in the example or how to modify it to fit the more complex homework system, let alone how to then transform it into eigenvalues given the exactly 1-page example on how to use them with no further explanation of why they were doing what they were doing it. Everyone in my class routinely complains about the book, and the topics covered are so random and niche that it's hard to google them when you need further clarification. It's almost like it's trying to teach linear algebra without telling you that's what it's doing. With other useless stuff thrown in. But hey, If you want to know how to find the square root of a number or the inverse of a system of linear equations by hand and don't have access to a graphing calculator or the internet, this book will teach you how with minimal tears and only a few thrown objects.

Needed this for a class and came as expected

This is not a book to learn MATLAB. This is a book that teaches numerical methods (it does that very well). Great examples and great practice problems enabled me to grasp the material easily. The MATLAB exercises made it easier for a beginner programmer like me to write my own numerical analysis programs.

It was a hardcover but it had ink blotches on several pages. Some are very large and it appears to be a rejected copy. No colors besides black, white (of coarse) a dull blue. The ink blotches all seem to be of dull blue. Other than having the appearance of a second hand book for an outrageous price all the information seems to be readable.

I had to buy this book for a pass/fail course in which the professor taught us absolutely nothing and expected us to be able to learn everything out of this book. However, it skips some very important things and skims over the others so that you have to reread several times to even get the basic idea. The problems are riddled with errors and I had to use a basic MATLAB book just to follow what Chapra was talking about half the time as this WAS our introduction to MATLAB. On top of all of that, it costs about \$150 through and you can only get a few dollars back for it. It's not worth the

\$150 and I don't blame anyone for not wanting to buy it back, but that leaves me with a crappy and nearly useless textbook to put with the rest of my unwanted textbooks sitting in the attic. If you can get away with it, DO NOT waste your money on this book. You will regret it if you do.

Got this book for an Intro to Numerical Methods class. Dunno if it was my instructor, or the book, but only ended up reading a couple chapters of it, virtually all the info in the book related to MatLab is contained in the matlab help file... and I ended up getting all the math proofs in my notes in class... So really didn't need the book.

Great book, good practice problems

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