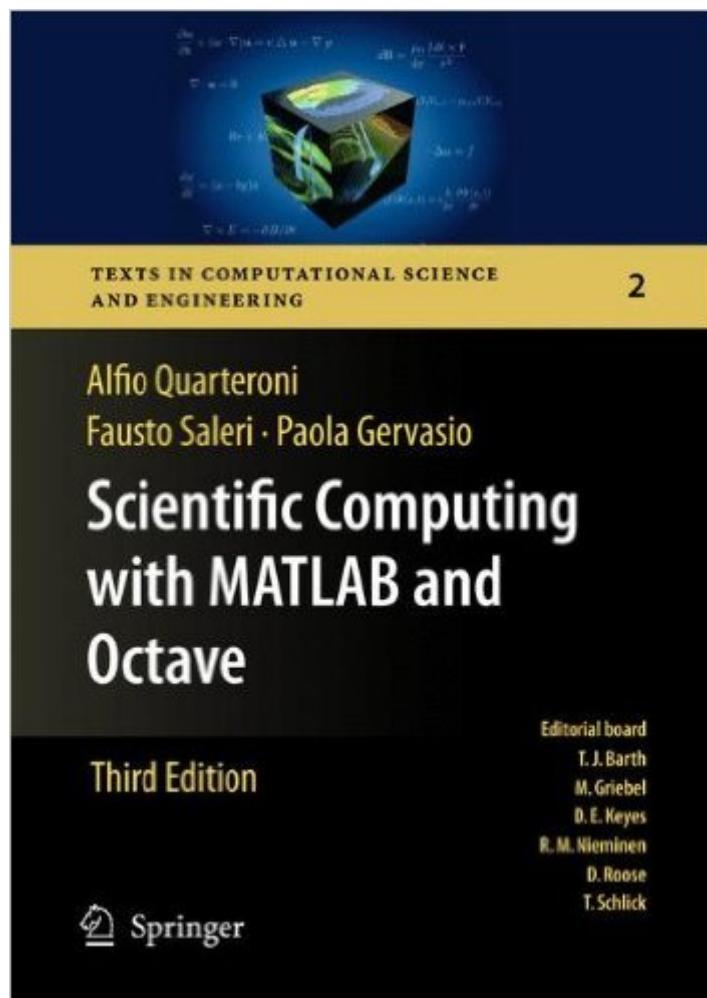


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# Scientific Computing With MATLAB And Octave (Texts In Computational Science And Engineering)



## Synopsis

This textbook is an introduction to Scientific Computing, in which several numerical methods for the computer-based solution of certain classes of mathematical problems are illustrated. The authors show how to compute the zeros or the integrals of continuous functions, solve linear systems, approximate functions using polynomials and construct accurate approximations for the solution of ordinary and partial differential equations. To make the format concrete and appealing, the programming environments Matlab and Octave are adopted as faithful companions. The book contains the solutions to several problems posed in exercises and examples, often originating from important applications. At the end of each chapter, a specific section is devoted to subjects which were not addressed in the book and contains bibliographical references for a more comprehensive treatment of the material.

## Book Information

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Average Customer Review: 4.5 out of 5 stars See all reviews (2 customer reviews)

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## Customer Reviews

Very heavy on engineering and scientific math. I have a masters in engineering and have taken a lot of advanced math, but not used it in years. So when I opened the book and began I liked what I saw, but realized that I was going to have to review a lot of forgotten math. So if you buy this book, it would help if your applied-math skills are good. If not maybe you should try a different book, although not sure which one. And by the way, another review seemed to imply this was the only book that explicitly refers to octave. Don't think that is true. In fact the focus of this book is mostly

MATLAB, not Octave (see the title)

The one and ONLY book that refers explicitly to Octave. Before giving many dollars away on Matlab try the open source Octave.

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Fundamentals of Time-Frequency Analyses in Matlab/Octave A Primer on Scientific Programming with Python (Texts in Computational Science and Engineering)  
Computational Partial Differential Equations Using MATLAB (Chapman & Hall/CRC Applied Mathematics & Nonlinear Science)  
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