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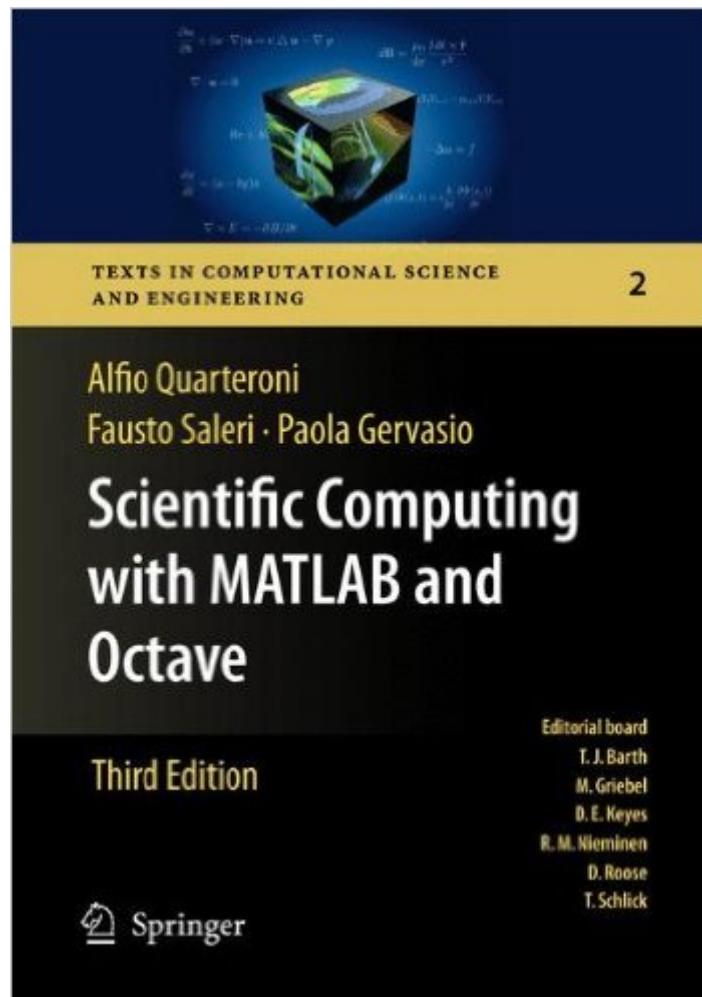
# Scientific Computing With MATLAB And Octave (Texts In Computational Science And Engineering)

# 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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# 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.

Scientific Computing with MATLAB and Octave (Texts in Computational Science and Engineering) MATLAB - Programming with MATLAB for Beginners - A Practical Introduction to Programming and Problem Solving (Matlab for Engineers, MATLAB for Scientists, Matlab Programming for Dummies) 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) Real Computing Made Real: Preventing Errors in Scientific and Engineering Calculations (Dover Books on Computer Science) Computability, Complexity, and Languages, Second Edition: Fundamentals of Theoretical Computer Science (Computer Science and Scientific Computing) Forensic Science: An Introduction to Scientific and Investigative Techniques, Third Edition (Forensic Science: An Introduction to Scientific & Investigative Techniques) Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Computational Photochemistry, Volume 16 (Theoretical and Computational Chemistry) In Silico Medicinal Chemistry: Computational Methods to Support Drug Design (Theoretical and Computational Chemistry Series) Quantum Computing: A Gentle Introduction (Scientific and Engineering Computation) Accelerating MATLAB with GPU Computing: A Primer with Examples The Theory of Matrices, Second Edition: With Applications (Computer Science and Scientific Computing) Elementary Linear Programming with Applications, Second Edition (Computer Science & Scientific Computing Series) Books of Breathing and Related Texts -Late Egyptian Religious Texts in the British Museum Vol.1 (Catalogue of the Books of the Dead and Other Religious Texts in the British Museum) Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling GPU Computing Gems Emerald Edition (Applications of GPU Computing Series) Computational Science and Engineering A First Course in Numerical Methods (Computational Science and Engineering)