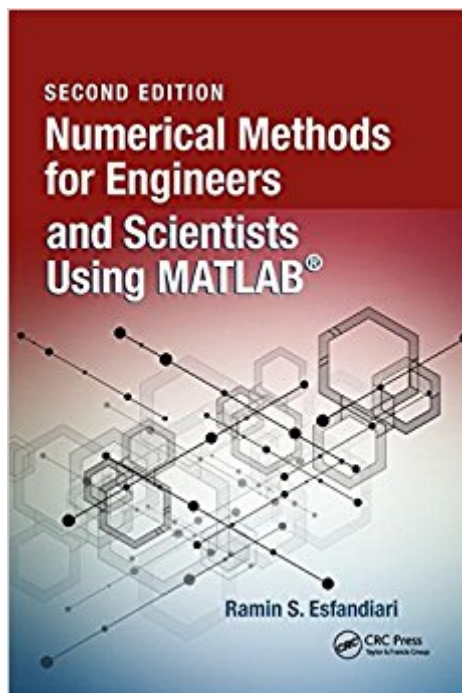




Ebook Directory
the best source of ebook

The book was found

Numerical Methods For Engineers And Scientists Using MATLAB®, Second Edition



Synopsis

This book provides a pragmatic, methodical and easy-to-follow presentation of numerical methods and their effective implementation using MATLAB, which is introduced at the outset. The author introduces techniques for solving equations of a single variable and systems of equations, followed by curve fitting and interpolation of data. The book also provides detailed coverage of numerical differentiation and integration, as well as numerical solutions of initial-value and boundary-value problems. The author then presents the numerical solution of the matrix eigenvalue problem, which entails approximation of a few or all eigenvalues of a matrix. The last chapter is devoted to numerical solutions of partial differential equations that arise in engineering and science. Each method is accompanied by at least one fully worked-out example showing essential details involved in preliminary hand calculations, as well as computations in MATLAB. This thoroughly-researched resource:

Book Information

Hardcover: 493 pages

Publisher: CRC Press; 2 edition (March 20, 2017)

Language: English

ISBN-10: 1498777422

ISBN-13: 978-1498777421

Product Dimensions: 1.2 x 7 x 10 inches

Shipping Weight: 2.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #111,490 in Books (See Top 100 in Books) #9 in [Books > Science & Math > Mathematics > Number Systems](#) #223 in [Books > Textbooks > Engineering > Mechanical Engineering](#) #499 in [Books > Engineering & Transportation > Engineering > Mechanical](#)

Customer Reviews

Dr. Ramin Esfandiari is a professor of Mechanical and Aerospace Engineering at California State University, Long Beach (CSULB), where he has served as a faculty member since 1989. He received his B.S. in Mechanical Engineering, and M.A. and Ph.D. in Applied Mathematics (Optimal Control), all from the University of California, Santa Barbara. He has authored several refereed research papers in high quality engineering and scientific journals, and more than 10 books, including *Modeling and Analysis of Dynamic Systems*, 2nd Edition (CRC Press, 2014, with Dr. Bei Lu) and *Applied Mathematics for Engineers*, 5th Edition (Atlantis, 2013). Professor Esfandiari is the

recipient of several teaching and research awards, including two Meritorious Performance and Professional Promise Awards, TRW Excellence in Teaching and Scholarship Award, and the Distinguished Faculty Teaching Award.

[Download to continue reading...](#)

Numerical Methods for Engineers and Scientists Using MATLAB[®], Second Edition Numerical Methods for Engineers and Scientists, Second Edition, Physics for Scientists and Engineers with Modern Physics: Volume II (3rd Edition) (Physics for Scientists & Engineers) Physics for Scientists and Engineers: Vol. 2: Electricity and Magnetism, Light (Physics, for Scientists & Engineers, Chapters 22-35) Numerical Methods for Engineers and Scientists 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) Applied Numerical Methods with MATLAB for Engineers and Scientists (Civil Engineering) Applied Numerical Methods W/MATLAB: for Engineers & Scientists Electrical Machines with MATLAB[®], Second Edition Advice to Rocket Scientists: A Career Survival Guide for Scientists and Engineers (Library of Flight) Numerical Methods for Engineers (Civil Engineering) Solutions To Accompany Mcquarrie's Mathematical Methods For Scientists And Engineers. Mathematical Methods for Scientists and Engineers Linear Algebra for Engineers and Scientists Using Matlab Atmospheric and Space Flight Dynamics: Modeling and Simulation with MATLAB[®] and Simulink[®] (Modeling and Simulation in Science, Engineering and Technology) The Boundary Element Method for Engineers and Scientists, Second Edition: Theory and Applications Modern Physics, Second Edition: for Scientists and Engineers Multi-Sensor Data Fusion with MATLAB[®]

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)