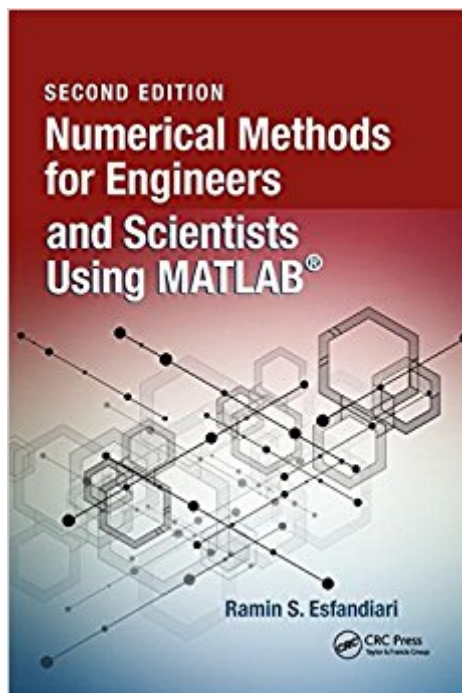




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Synopsis

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:

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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

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