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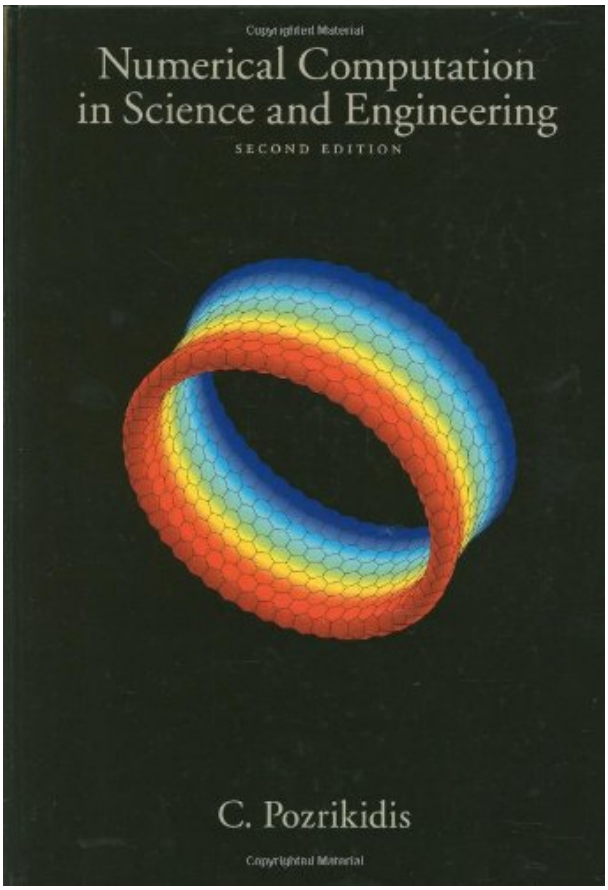

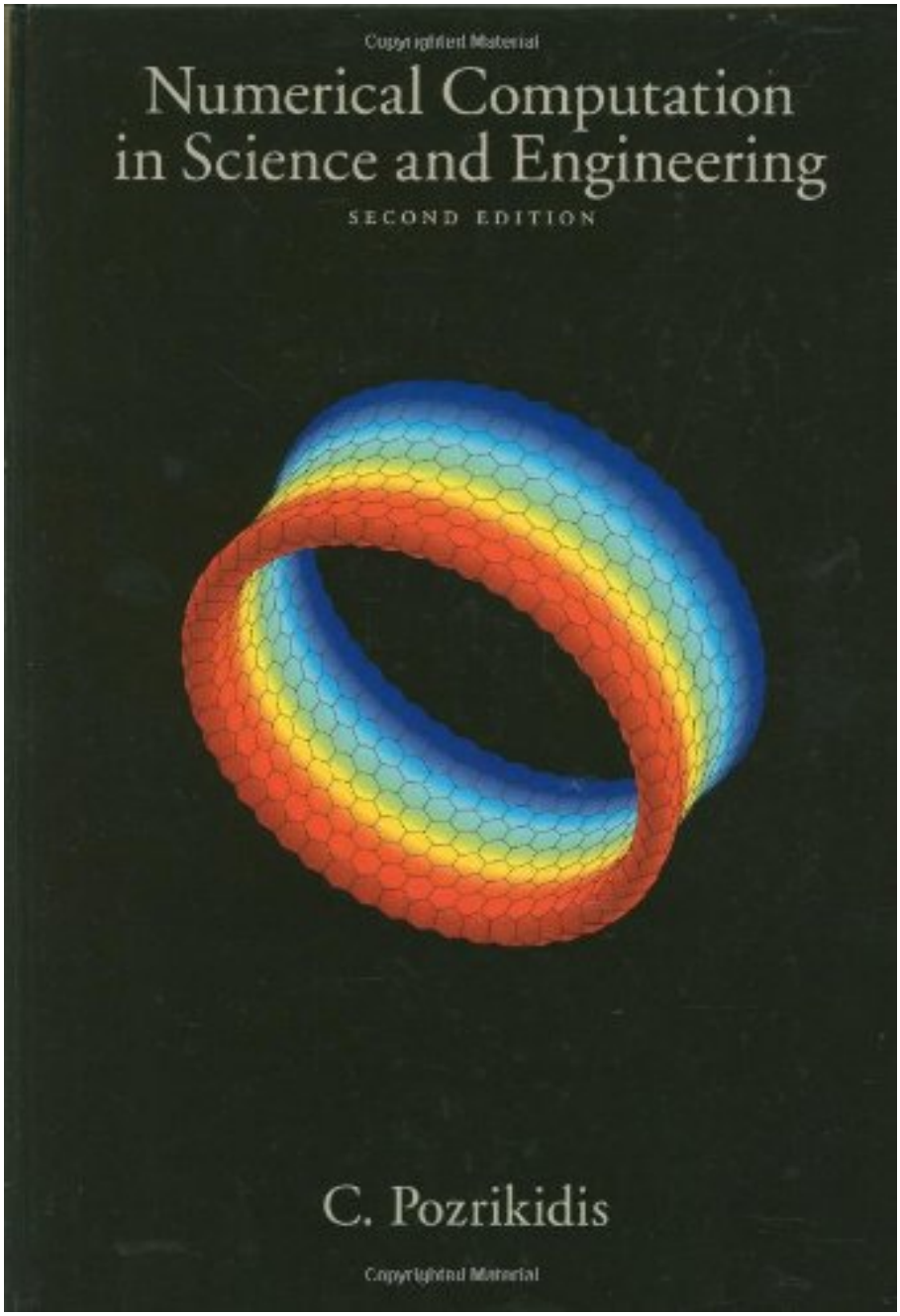

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"This book discusses the fundamental and practical issues involved in a numerical computation. It illustrates practical implementation of numerical algorithms and presents alternative approaches. The book is geared for upper-level undergraduate and beginning graduate courses or self-study." --Applied Mechanics Review

"An excellent text that covers all aspects of computation required to solve engineering problems on computers. The chapters on numerical solutions are particularly good and they cover the latest methodology."--Ralph W. Pike, Louisiana State University

About the Author

C. Pozrikidis is Professor of Chemical Engineering at the University of Massachusetts, Amherst. He is the author of nine books on theoretical and computational fluid dynamics and biomechanics, boundary element methods, spectral and finite element methods, and computer programming.

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Designed for the non-expert student, enthusiast, or researcher, this text provides an accessible introduction to numerical computation and its applications in science and engineering. It assumes no prior knowledge beyond undergraduate calculus and elementary computer programming. Fundamental and practical issues are discussed in a unified manner with a generous, but not excessive, dose of numerical analysis. Topics are introduced on a need to know basis to concisely illustrate the practical implementation of a variety of algorithms and demystify seemingly esoteric numerical methods. Algorithms that can be explained without too much elaboration and can be implemented within a few dozen lines of computer code are discussed in detail, and computer programs in Fortran, C++, and Matlab are provided. Algorithms whose underlying theories require long, elaborate explanations are discussed at the level of first principles, and references for further information are given. The book uses numerous schematic illustrations to demonstrate concepts and facilitate their understanding by providing readers with a helpful interplay between ideas and visual images. Real-world examples drawn from various branches of science and engineering are presented. Updated information on computer technology and numerical methods is included, many new and some original topics are introduced. Additional solved and unsolved problems are included.

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