
SCIENTIFIC COMPUTING

An Introductory Survey

Second Edition

Michael T. Heath

*University of Illinois
at Urbana-Champaign*



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Scientific Computing Michael T. Heath, 2018-11-14 This book differs from traditional numerical analysis texts in that it focuses on the motivation and ideas behind the algorithms presented rather than on detailed analyses of them. It presents a broad overview of methods and software for solving mathematical problems arising in computational modeling and data analysis including proper problem formulation, selection of effective solution algorithms, and interpretation of results. In the 20 years since its original publication, the modern fundamental perspective of this book has aged well and it continues to be used in the classroom. This Classics edition has been updated to include pointers to Python software and the Chebfun package, expansions on barycentric formulation for Lagrange polynomial interpolation and stochastic methods, and the availability of about 100 interactive educational modules that dynamically illustrate the concepts and algorithms in the book. Scientific Computing: An Introductory Survey, Second Edition, is intended as both a textbook and a reference for computationally oriented disciplines that need to solve mathematical problems. Object Oriented Methods for

Interoperable Scientific and Engineering Computing Michael E. Henderson, Christopher Radcliff, Anderson, Stephen L. Lyons, 1999-01-01 Contains papers presented at the October 1998 SIAM Workshop on Object Oriented Methods for Interoperable Scientific and Engineering Computing that covered a variety of topics and issues related to designing and implementing computational tools for science and engineering. Subject Guide to Books in Print, 1996 **Introduction to Parallel Computing** Vipin Kumar, 1994 Mathematics of Computing: Parallelism Hypercube Multiprocessors, 1987 Michael T. Heath, 1987-01-01 Proceedings: Parallel Computing **Scientific and Technical Aerospace Reports**, 1984

Conference Proceedings, 1994 Forthcoming Books Rose Arny, 1997-04 Scientific Parallel Computing Larkin Ridgway Scott, Terry Clark, Babak Bagheri, 2021-03-09 What does Google's management of billions of Web pages have in common with analysis of a genome with billions of nucleotides? Both apply methods that coordinate many processors to accomplish a single task. From mining genomes to the World Wide Web, from modeling financial markets to global weather patterns, parallel computing enables computations that would otherwise be impractical if not impossible with sequential approaches alone. Its fundamental role as an enabler of simulations and data analysis continues an advance in a wide range of application areas. Scientific Parallel Computing is the first textbook to integrate all the fundamentals of parallel computing in a single volume while also providing a basis for a deeper understanding of the subject. Designed for graduate and advanced undergraduate courses in the sciences and in engineering, computer science, and mathematics, it focuses on the three key areas of algorithms, architecture, languages, and their crucial synthesis in performance. The book's computational examples, whose math prerequisites are not beyond the level of advanced calculus, derive from a breadth of topics in scientific and engineering simulation and data analysis. The programming exercises presented early in the book are designed to bring students up to speed quickly, while the book later develops projects challenging enough to guide students toward research.

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