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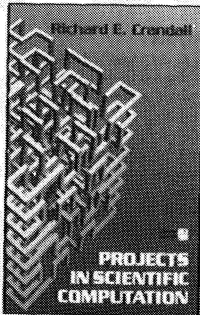
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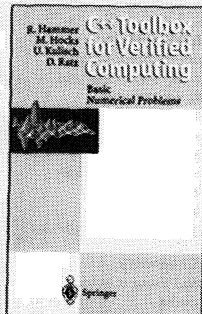


R. E. Crandall
Projects in Scientific Computation
 1994. XXVI, 470 pages.
 3 1/2" DOS diskette.
 Hardcover DM 98,-
 ISBN 3-540-97808-9

This interdisciplinary senior/graduate level textbook provides a compendium of text, projects, problems and examples for readers to explore and solve in the field of scientific computing. The problem sets have been class-tested.

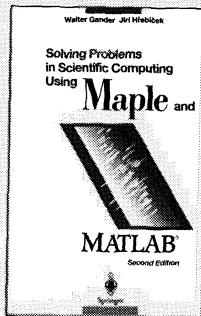
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R. Hammer, M. Hocks, U. Kulisch, D. Ratz
C++ Toolbox for Verified Computing I
Basic Numerical Problems
 1995. XVII, 377 pages.
 29 figures.
 Hardcover DM 128,-
 ISBN 3-540-59110-9

This C++ Toolbox for Verified Computing presents an extensive set of sophisticated tools for solving basic numerical problems with verification of the results. It is the C++ edition of the *Numerical Toolbox for Verified Computing* which was based on the computer language PASCAL-XSC. The sources of the programs in this book are freely available via anonymous ftp. The book offers a general discussion on arithmetic and computational reliability, analytical mathematics and verification techniques, algorithms, and actual C++ implementations. In each chapter, examples, exercises, and numerical results demonstrate the application of the routines presented.



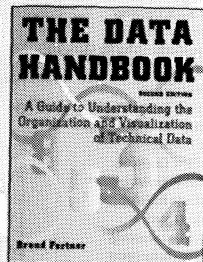
Walter Gander, Jiří Hřebíček
Solving Problems in Scientific Computing Using Maple and MATLAB®
 2nd, exp. ed. 1995.
 XVI, 315 pages.
 106 figures, 8 tables.
 Softcover DM 68,-
 ISBN 3-540-58746-2

Modern computing tools like Maple (symbolic computation) and MATLAB (a numeric computation and visualization program) make it possible to easily solve realistic nontrivial problems in scientific computing. Students can be taught now real-life problems that they can actually solve using the new powerful software. They will improve their knowledge through learning by examples and they will learn how both systems, MATLAB and Maple, may be used to solve problems interactively. All programs can be obtained from a server at ETH Zürich.

B. Fortner
The Data Handbook
A Guide to Understanding the Organization and Visualization of Technical Data
 2nd ed. 1995.
 XXIX, 350 pages.
 Hardcover DM 59,-
 ISBN 0-387-94505-9

This "Handbook" was authored by Brand Fortner, one of the founders of Spyglass, and it was his experience in working with very large amounts of numerical data that provided the underpinnings for this work.

The second edition contains updated and corrected materials. A structured array of data sets is also available online via the TELOS Web site, www.telospub.com, which provides users with direct digital access to information they might need in working through the book.



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