

NUMERICAL RECIPES in C

The Art of Scientific Computing

Second Edition

William H. Press

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Numerical Recipes In C Example The Art Of Scientific Computing

William H. Press



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as well as the affiliated example books The C routines in ANSI ISO C source code can be used with almost any existing C vector matrix class library according to user preference A simple class library for stand alone use is also included The ISO 9660 standard format CD ROM can be used by Windows all versions and Macintosh compatible computers using any Web browser to navigate among the program files Included with the CD ROM is a license to use all the copyrighted Numerical Recipes code on a single Windows or Macintosh compatible computer Both scientific programmers new to C and experienced C programmers who need access to the Numerical Recipes routines can benefit from this new version of a classic text

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from standard areas of numerical analysis linear algebra differential equations roots through subjects useful to signal processing Fourier methods filtering data analysis least squares robust fitting statistical functions simulation random deviates and Monte Carlo and more The lively informal text combined with an underlying degree of mathematical sophistication makes the book useful to a wide range of readers beginning at the advanced undergraduate level

Numerical Recipes in FORTRAN 77: Volume 1, Volume 1 of Fortran Numerical Recipes William H. Press, Brian P. Flannery, Saul A. Teukolsky, William T. Vetterling, 1992-09-25 This is the greatly revised and greatly expanded Second Edition of the hugely popular Numerical Recipes The Art of Scientific Computing The product of a unique collaboration among four leading scientists in academic research and industry Numerical Recipes is a complete text and reference book on scientific computing In a self contained manner it proceeds from mathematical and theoretical considerations to actual practical computer routines With over 100 new routines bringing the total to well over 300 plus upgraded versions of the original routines this new edition remains the most practical comprehensive handbook of scientific computing available today Highlights of the new material include A new chapter on integral equations and inverse methods Multigrid and other methods for solving partial differential equations Improved random number routines Wavelet transforms The statistical bootstrap method A new chapter on less numerical algorithms including compression coding and arbitrary precision arithmetic The book retains the informal easy to read style that made the first edition so popular while introducing some more advanced topics It is an ideal textbook for scientists and engineers and an indispensable reference for anyone who works in scientific computing The Second Edition is available in FORTRAN the traditional language for numerical calculations and in the increasingly popular C language Numerical Recipes in FORTRAN William H. Press, 1992 A complete text and reference book on scientific computing It proceeds from mathematical and theoretical considerations to actual practical computer routines *Numerical Recipes in Fortran 90: Volume 2, Volume 2 of Fortran Numerical Recipes* William H. Press, 1996-09-28 This book gives a detailed introduction to Fortran 90 and to parallel programming with all 350 routines from the second edition of Numerical Recipes **Numerical recipes in C**, 1999 Numerical Computation 1 Christoph W. Ueberhuber, 2012-12-06 This book deals with various aspects of scientific numerical computing No attempt was made to be complete or encyclopedic The successful solution of a numerical problem has many facets and consequently involves different fields of computer science Computer numerics as opposed to computer algebra is thus based on applied mathematics numerical analysis and numerical computation as well as on certain areas of computer science such as computer architecture and operating systems Applied Mathematics I I I Numerical Analysis Analysis Algebra I I Numerical Computation Symbolic Computation I Operating Systems Computer Hardware Each chapter begins with sample situations taken from specific fields of application Abstract and general formulations of mathematical problems are then presented Following this abstract level a general discussion about principles and methods for the numerical solution of mathematical problems is presented

Relevant algorithms are developed and their efficiency and the accuracy of their results is assessed. It is then explained as to how they can be obtained in the form of numerical software. The reader is presented with various ways of applying the general methods and principles to particular classes of problems and approaches to extracting practically useful solutions with appropriately chosen numerical software are developed. Potential difficulties and obstacles are examined and ways of avoiding them are discussed. The volume and diversity of all the available numerical software is tremendous. **Numerical Recipes : the Art of Scientific Computing** William H. Press, 1988 *Numerical Recipes in C/C++* William H. Press, 2002

Numerical Mathematics Jeffrey S. Owall, 2024-10-24 This textbook introduces key numerical algorithms used for problems arising in three core areas of scientific computing: calculus, differential equations, and linear algebra. Theoretical results supporting the derivation and error analysis of algorithms are given rigorous justification in the text and exercises, and a wide variety of detailed computational examples further enhance the understanding of key concepts. Numerical Mathematics includes topics not typically discussed in similar texts at this level, such as a Fourier-based analysis of the trapezoid rule, finite volume methods for the 2D Poisson problem, the Nyström method for approximating the solution of integral equations, and the relatively new FEAST method for targeting clusters of eigenvalues and their eigenvectors. An early emphasis is given to recognizing or deducing orders of convergence in practice, which is essential for assessing algorithm performance and debugging computational software. Numerical experiments complement many of the theorems concerning convergence, illustrating typical behavior of the associated algorithms when the assumptions of the theorems are satisfied and when they are not. This book is intended for advanced undergraduate and beginning graduate students in mathematics seeking a solid foundation in the theory and practice of scientific computing. Students and researchers in other disciplines who want a fuller understanding of the principles underlying these algorithms will also find it useful. The text is divided into three parts corresponding to numerical methods for problems in calculus, differential equations, and linear algebra. Each part can be used for a one-term course, quarter, or semester, making the book suitable for a two- or three-term sequence in numerical analysis or for largely independent courses on any of the three main topics.

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