

# NUMERICAL RECIPES in C

The Art of Scientific Computing

Second Edition

William H. Press

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# Numerical Recipes In C The Art Of Scientific Computing

**William H. Press, S.A. Teukolsky**



## **Numerical Recipes In C The Art Of Scientific Computing:**

*Numerical Recipes in C++* William H. Press, William T. Vetterling, 2002 Now the acclaimed Second Edition of Numerical Recipes is available in the C object oriented programming language Including and updating the full mathematical and explanatory contents of Numerical Recipes in C this new version incorporates completely new C versions of the more than 300 Numerical Recipes routines that are widely recognized as the most accessible and practical basis for 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 Highlights include linear algebra interpolation special functions random numbers nonlinear sets of equations optimization eigensystems Fourier methods and wavelets statistical tests ODEs and PDEs integral equations and inverse theory The authors approach to C preserves the efficient execution that C users expect while simultaneously employing a clear object oriented interface to the routines Tricks and tips for scientific computing in C are liberally included The routines in ANSI ISO C source code can thus 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 in the book Both scientific programmers new to C and experienced C programmers who need access to the Numerical Recipes routines can benefit from this important new version of an invaluable classic text     Numerical Recipes 3rd Edition William H. Press, 2007-09-06 Do you want easy access to the latest methods in scientific computing This greatly expanded third edition of Numerical Recipes has it with wider coverage than ever before many new expanded and updated sections and two completely new chapters The executable C code now printed in colour for easy reading adopts an object oriented style particularly suited to scientific applications Co authored by four leading scientists from academia and industry Numerical Recipes starts with basic mathematics and computer science and proceeds to complete working routines The whole book is presented in the informal easy to read style that made earlier editions so popular Highlights of the new material include a new chapter on classification and inference Gaussian mixture models HMMs hierarchical clustering and SVMs a new chapter on computational geometry covering KD trees quad and octrees Delaunay triangulation and algorithms for lines polygons triangles and spheres interior point methods for linear programming MCMC an expanded treatment of ODEs with completely new routines and many new statistical distributions For support or to subscribe to an online version please visit [www.nr.com](http://www.nr.com)     **Numerical Recipes in Pascal: the Art of Scientific Computing** William H. Press, S.A. Teukolsky, 1989     *Numerical Recipes in C* William H. Press, Saul Arno Teukolsky, William T. Vetterling, Brian P. Flannery, 2002     Numerical Recipes William T. Vetterling, William H. Press, 1992-11-27 These example books published as part of the Numerical Recipes Second Edition series are source programs that demonstrate all of the Numerical Recipes subroutines Each example program contains comments and is prefaced by a short description of how it functions The books

consist of all the material from the original edition as well as new material from the Second Edition They will be valuable for readers who wish to incorporate procedures and subroutines into their own source programs They are available in Fortran C and C

**Numerical Recipes Example Book C++** William T. Vetterling, 2017-08-08 Numerical Recipes Example Book C The Art of Scientific Computing By William T Vetterling [Numerical Recipes in C](#), 1992 [Numerical recipes in C](#), 1999 [Numerical Recipes in C/C++](#) William H. Press, 2002 **Numerical Recipes in Pascal (First Edition)** William H. Press, 1989-10-27 Numerical Recipes The Art of Scientific Computing was first published in 1986 and became an instant classic among scientists engineers and social scientists In this book the original time tested programs have been completely reworked into a clear consistent Pascal style This represents a significant improvement to the immensely successful programs contained in the first edition which were originally written in Fortran The authors make extensive use of pointers dynamic memory allocation and other features utilized by this language The explanatory text accompanying the programs replicates the lucid and easy to read prose found in the original version and incorporates corrections improvements and explanations of special Pascal features The product of a unique collaboration among four leading scientists in academic research and industry Numerical Recipes in Pascal fills a long recognized need for a practical comprehensive handbook of scientific computing in the Pascal language The book is designed both for the Pascal programmer who wants exposure to the techniques of scientific computing and for the working scientist social scientist and engineer The scope of the book ranges 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

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