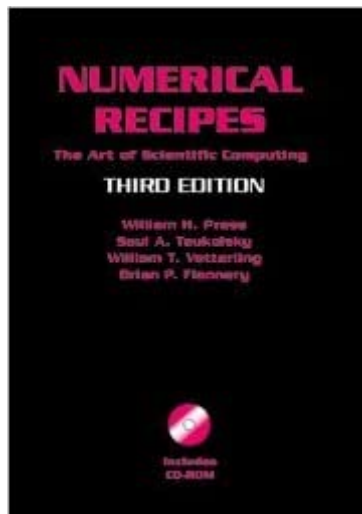




**Ebook Directory**  
the best source of ebook

The book was found

# Numerical Recipes With Source Code CD-ROM 3rd Edition: The Art Of Scientific Computing



## Synopsis

Co-authored by four leading scientists from academia and industry, Numerical Recipes Third Edition starts with basic mathematics and computer science and proceeds to complete, working routines. Widely recognized as the most comprehensive, accessible and practical basis for scientific computing, this new edition incorporates more than 400 Numerical Recipes routines, many of them new or upgraded. The executable C++ code, now printed in color for easy reading, adopts an object-oriented style particularly suited to scientific applications. The whole book is presented in the informal, easy-to-read style that made earlier editions so popular. Please visit [www.nr.com](http://www.nr.com) or [www.cambridge.org/us/numericalrecipes](http://www.cambridge.org/us/numericalrecipes) for more details. More information concerning licenses is available at: [www.nr.com/licenses](http://www.nr.com/licenses)

New key features:

- 2 new chapters, 25 new sections, 25% longer than Second Edition
- Thorough upgrades throughout the text
- Over 100 completely new routines and upgrades of many more.
- New Classification and Inference chapter, including Gaussian mixture models, HMMs, hierarchical clustering, Support Vector Machines
- New Computational Geometry chapter covers KD trees, quad- and octrees, Delaunay triangulation, and algorithms for lines, polygons, triangles, and spheres
- New sections include interior point methods for linear programming, Monte Carlo Markov Chains, spectral and pseudospectral methods for PDEs, and many new statistical distributions
- An expanded treatment of ODEs with completely new routines
- Plus comprehensive coverage of 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
- And much, much more!

This book/CD bundle of the greatly expanded third edition of Numerical Recipes now has wider coverage than ever before, many new, expanded and updated sections, and two completely new chapters. Visit the authors' web site for information about electronic subscriptions

[www.nr.com/aboutNR3book.html](http://www.nr.com/aboutNR3book.html)

## Book Information

Hardcover: 1235 pages

Publisher: Cambridge University Press; 3 edition (September 1, 2007)

Language: English

ISBN-10: 0521884071

ISBN-13: 978-0521884075

Product Dimensions: 7 x 1.7 x 10 inches

Shipping Weight: 4.6 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars 7 customer reviews

Best Sellers Rank: #745,529 in Books (See Top 100 in Books) #124 in [Books > Science & Math > Mathematics > Popular & Elementary > Counting & Numeration](#) #244 in [Books > Science & Math > Mathematics > Pure Mathematics > Number Theory](#) #4691 in [Books > Computers & Technology > Programming > Languages & Tools](#)

## Customer Reviews

"This monumental and classic work is beautifully produced and of literary as well as mathematical quality. It is an essential component of any serious scientific or engineering library." Computing Reviews"... an instant 'classic,' a book that should be purchased and read by anyone who uses numerical methods ..." American Journal of Physics"... replete with the standard spectrum of mathematically pretreated and coded/numerical routines for linear equations, matrices and arrays, curves, splines, polynomials, functions, roots, series, integrals, eigenvectors, FFT and other transforms, distributions, statistics, and on to ODE's and PDE's ... delightful." Physics in Canada"... if you were to have only a single book on numerical methods, this is the one I would recommend." IEEE Computational Science & Engineering"This encyclopedic book should be read (or at least owned) not only by those who must roll their own numerical methods, but by all who must use prepackaged programs." New Scientist"These books are a must for anyone doing scientific computing." Journal of the American Chemical Society"The authors are to be congratulated for providing the scientific community with a valuable resource." The Scientist"I think this is an incredibly valuable book for both learning and reference and I recommend it for any scientists or student in a numerate discipline who need to understand and/or program numerical algorithms." International Association for Pattern Recognition"The attractive style of the text and the availability of the codes ensured the popularity of the previous editions and also recommended this recent volume to different categories of readers, more or less experienced in numerical computation." Octavian Pastravanu, Zentralblatt MATH

Written in C++, this book/CD of Numerical Recipes 3rd Edition now covers: classification and inference; computational geometry; MCMC; interior point methods; and there is an improved treatment of ODEs. For more information, or to buy, visit [www.cambridge.org/numericalrecipes](http://www.cambridge.org/numericalrecipes). For licences or information about electronic subscriptions, please visit [www.nr.com](http://www.nr.com).

Nice handbook. Only that it's too expensive.

In 3rd edition, all codes implemented from the scratch based on c++ (in 2nd edition, all codes are converted from FORTRAN, index started from 1). Good explanation about numerical method. All codes are well optimized. However, lack of description about the code optimization.

Pure diamond

This is very useful in our coding project.

fast and in time, The good thing about this product is that I can now cut thin slices of my homemade fresh bread! feel very good . my best friend need it , These are so great!

There seems to be considerable overlap with the 2nd edition. Typically, the algorithms covered by this book and its earlier editions are well known and heavily used. While progress does go on in algorithm research, it is usually beyond the introductory level of the text. The code samples in C++ can be useful. Saves you from writing them. If you already have the 2nd edition, you may want to take a pass on this. Save some money. If you want to go beyond the treatment in this book, try Knuth's Art of Computer Programming, The, Volumes 1-3 Boxed Set (2nd Edition) (The Art of Computer Programming Series). A far deeper treatment, that takes you into the finding and analysis of algorithms. Whereas the current book is more about explaining the algorithms it covers, than about finding new and better ones.

The book and the CD sounded like a convenient bundle. Unfortunately, the CD has some very restrictive terms for its use. Nonetheless, the CD is not the primary part of this purchase. Consider that many of the algorithms in the book are available in standard C libraries or the C++ STL. The more mathematically intensive algorithms are often freely available from [...]. The value of the book, however, is that it thoroughly explains the basis of the algorithms, rather than the behavior of the algorithm. Thus it builds a fundamental understanding of the material.

[Download to continue reading...](#)

Numerical Recipes with Source Code CD-ROM 3rd Edition: The Art of Scientific Computing  
Numerical Analysis: Mathematics of Scientific Computing (The Sally Series; Pure and Applied Undergraduate Texts, Vol. 2) Numerical Analysis: Mathematics of Scientific Computing write source  
2000 Skills Book (Great Source Write Source) Programmed Inequality: How Britain Discarded

Women Technologists and Lost Its Edge in Computing (History of Computing) Biomedical Statistics with Computing (Medical Computing Series) Numerical Solution of Partial Differential Equations: Finite Difference Methods (Oxford Applied Mathematics and Computing Science Series) 2012 International Plumbing Code (Includes International Private Sewage Disposal Code) (International Code Council Series) Building Code Basics: Commercial; Based on the International Building Code (International Code Council Series) Elementary Linear Programming with Applications, Second Edition (Computer Science & Scientific Computing Series) Cloud Computing for Science and Engineering (Scientific and Engineering Computation) Introduction to Scientific and Technical Computing Scientific Computing (de Gruyter Textbook) Verification and Validation in Scientific Computing Scientific Computing: For Scientists and Engineers (De Gruyter Textbook) Scientific Computing with MATLAB and Octave (Texts in Computational Science and Engineering) Lanczos Algorithms for Large Symmetric Eigenvalue Computations Vol. I Theory (Progress in Scientific Computing) An Introduction to Scientific Computing: Twelve Computational Projects Solved with MATLAB (Texts in Applied Mathematics) Concurrent Scientific Computing (Texts in Applied Mathematics) Visualization in Scientific Computing (Focus on Computer Graphics)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)