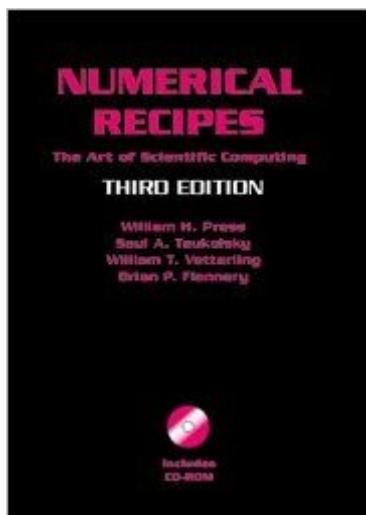


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# Numerical Recipes With Source Code CD-ROM 3rd Edition: The Art Of Scientific Computing



## 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)

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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.

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