

NUMERICAL RECIPES

The Art of Scientific Computing

William H. Press

Brian P. Flannery

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William T. Vetterling

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Numerical Recipes in FORTRAN Example Book William H. Press, Brian P. Flannery, Saul A. Teukolsky, William T. Vetterling, 1992-11-27 The 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 of 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 both Fortran and C

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 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

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