

NUMERICAL RECIPES in Fortran 90

The Art of Parallel Scientific Computing

William H. Press

Saul A. Teukolsky

William T. Vetterling

Brian P. Flannery

```

    DIMENSION(KMAXX) :: err
    DIMENSION(IMAX), SAVE :: a
    VE :: epsold = -1.0
    eps1,errmax,fact,h,red,scale,wrkmin,xest
    VE :: xnew
    DIMENSION(size(y)) :: dfdx,yerr,ysav,yseq
    DIMENSION(size(y),size(y)) :: dfdy
    :: reduct
    , SAVE :: first=.true.
    eq(size(y),size(dydx),size(yscal),'stifbs')
    psold .or. nvold /= size(y)) then
    ROUTINE jacobn
    CE
    , PARAMETER :: IMAX=8, KMAXX=IMAX-1
    PARAMETER :: SAFE1=0.25_sp,SAFE2=0.7_sp,REDMAX=1.0e-
    :: k,km,ndum
    , DIMENSION(IMAX) :: nseq = (/ 2,6,10,14,22,34,50,
    different from bsstep.
```

Numerical Recipes In Fortran 90 The Art Of Parallel Scientific Computing

**William H. Press, Brian P.
Flannery, Saul A. Teukolsky, William T.
Vetterling**

Numerical Recipes In Fortran 90 The Art Of Parallel Scientific Computing:

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 Fortran 90: Volume 2, Volume 2 of Fortran Numerical Recipes William H. Press, Saul A. Teukolsky, William T. Vetterling, Brian P. Flannery, 1996-09-28 The second volume of the Fortran Numerical Recipes series Numerical Recipes in Fortran 90 contains a detailed introduction to the Fortran 90 language and to the basic concepts of parallel programming plus source code for all routines from the second edition of Numerical Recipes This volume does not repeat any of the discussion of what individual programs actually do the mathematical methods they utilize or how to use them

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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 90: Volume 2, Volume 2 of Fortran Numerical Recipes William H. Press, Saul A. Teukolsky, William T. Vetterling, Brian P. Flannery, 1996-09-28 The second volume of the Fortran Numerical Recipes series Numerical Recipes in Fortran 90 contains a detailed introduction to the Fortran 90 language and to the basic concepts of parallel programming plus source code for all routines from the second edition of Numerical Recipes This volume does not repeat any of the discussion of what individual programs actually do the mathematical methods they utilize or how to use them **Numerical Recipes in FORTRAN 77: Volume 1, Volume 1 of Fortran Numerical Recipes** William H. Press, Saul A. Teukolsky, Brian P. Flannery, William T. Vetterling, 1992-09-25 As with Numerical Recipes in C the FORTRAN edition has been greatly revised to make this edition the most up to date handbook for those working with FORTRAN Between both editions of Numerical Recipes over 300 000 copies have been sold **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 *Climate Time Series Analysis* Manfred Mudelsee, 2014-06-27 Climate is a paradigm of a complex system Analysing climate data is an exciting challenge which is increased by non normal distributional shape serial dependence uneven spacing and timescale uncertainties This book presents bootstrap resampling as a computing intensive method able to meet the challenge It shows the bootstrap to perform reliably in the most important statistical estimation techniques regression spectral analysis extreme values and correlation This book is written for climatologists and applied statisticians It explains step by step the bootstrap algorithms including novel adaptations and methods for confidence interval construction It tests the accuracy of the algorithms by means of Monte

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