

Numerical Methods for Engineers

Second Edition

D.V. Griffiths and I.M. Smith



CRC Press

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A CHAPMAN & HALL BOOK

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1--Jacobi Diagonalization for Eigenvalues of Symmetrical Matric
USE nm_lib; USE precision; IMPLICIT NONE
INTEGER::i, iters, j, limit, n, nc, nr
REAL(iwp)::alpha, big, ct, den, d2=2.0_iwp, d4=4.0_iwp, hold, l2, one=1
    penalty=1.E20_iwp, pi, st, small=1.E-20_iwp, tol, zero=0.0_iwp
REAL(iwp), ALLOCATABLE::a(:,:), a1(:,:), a2(:,:), enew(:), eold(:), p
OPEN(10, FILE='jacobi.res')
READ(10, *) n; ALLOCATE(a(n,n), a1(n,n), a2(n,n), enew(n), eold(n), p(
DO i=1, n; READ(10, *) a(i,i); END DO; a2=a
READ(10, *) tol, limit;
WRITE(11, *)
    "-----Jacobi Diagonalization for Eigenvalues of Symmetrical Mat
WRITE(11, '(/,A)') "Matrix A "; DO i=1, n; WRITE(11, '(6E12.4)') a(i,
WRITE(11, '(/,A)') "Matrix A "; DO i=1, n; WRITE(11, '(6E12.4)') a(i,
DO; iters=iters+1; big=zero
DO i=1, n; DO j=i+1, n
    IF (ABS(a(i, j)) > big) THEN
        big=ABS(a(i, j)); hold=a(i, j); nr=i; nc=j
    END IF
END DO; END DO
IF (ABS(big) < small) EXIT
a1=a; a2=a(nc, nc)
IF (ABS(a1(nr, nr) - a2(nr, nr)) < small) THEN
    alpha=zero
ELSE
    alpha=-TAN(d4*atan2(a1(nr, nr), a2(nr, nr))/d2)
END IF
ct=COS(alpha); s=SIN(alpha)
p(nr, nr)=ct; p(nc, nc)=ct; p(nr, nc)=s; p(nc, nr)=-s; DO i=1, n; E
a=MATMUL(MATMUL(TRANPOSE(a), p), p);
IF (iters < 5) THEN
    DO i=1, n; WRITE(11, '(6E12.4)') a(i, i); END DO
END IF
DO i=1, n; enew(i)=a(i, i); END DO
IF (checkit(enew, eold, tol).OR. iters==limit) EXIT
END DO
WRITE(11, '(A,/,I5)') "Iterations to Convergence",
WRITE(11, '(/,A)') "Final Transformed Matrix A"
DO i=1, n; WRITE(11, '(A, 12E12.4)') a(i, i); END DO; WRITE(11, *)
DO i=1, n; a1=a2; DO j=1, n; a2(i, j)=a(i, j); END DO
x=zero; a1(i, i)=penalty; x=eliminate(a1, x); l2=n
WRITE(11, '(A,E12.4)') "Eigenvalue ", a(i, i)
WRITE(11, '(A,6E12.4)') "Eigenvector", x/l2; WRITE(11, *)
END DO

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Numerical Methods In Eng

Terrence J. Akai



Numerical Methods In Eng:

Numerical Methods in Engineering Practice Amir Wadi Al-Khafaji, John R. Tooley, 1986 A comprehensive and detailed treatment of classical and contemporary numerical methods for undergraduate students of engineering The text emphasizes how to apply the methods to solve practical engineering problems covering over 300 projects drawn from civil mechanical and electrical engineering Numerical Methods in Science and Engineering □ A Practical Approach Rajasekaran S., 2003

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Numerical Methods In Engineering & Science Carl .E. Pearson, 1986-05-01 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education

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reinforce the concepts and problems have been added at the end of each chapter Exercise problems may be solved by using computational tools such as scientific calculators spreadsheet programs and MATLAB codes The detailed coverage and pedagogical tools make this an ideal textbook for students early career researchers and professionals

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Numerical Methods in Engineering & Science Graham de Vahl Davis, 2012-12-06 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education It is an outgrowth of a course of lectures and tutorials problem solving sessions which the author has given for a number of years at the University of New South Wales and elsewhere The course is normally taught at the rate of 11 hours per week throughout an academic year 28 weeks It has occasionally been given at double this rate over half the year but it was found that students had insufficient time to absorb the material and experiment with the methods The material presented here is rather more than has been taught in anyone year although all of it has been taught at some time The book is concerned with the application of numerical methods to the solution of equations algebraic transcendental and differential which will be encountered by students during their training and their careers The theoretical foundation for the methods is not rigorously covered

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Fundamentals of Engineering Numerical Analysis Parviz Moin, 2010-08-23 In this work, Parviz Moin introduces numerical methods and shows how to develop, analyze, and use them. A thorough and practical text, it is intended as a first course in numerical analysis.

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