

```

PROGRAM nm46
---Jacobi Diagonalization for Eigenvalues of Symmetrical Matrices
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=1.0_iwp,
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='nm46.out', STATUS='NEW')
READ(10, *)n, nc, nr; a=0.0_iwp; a1=0.0_iwp; a2=0.0_iwp; enew=0.0_iwp; eold=0.0_iwp; p=0.0_iwp
DO i=1,n; READ(10, *)a(i,:); ENDO; a2=a1; a1=a; ENDO; a2=a1
READ(10, *)tol, limit;
WRITE(11, '(A, I0, A)') "Matrix A is Symmetrical Matrix"
WRITE(11, '(/, A)') "Matrix A"; DO i=1,n; WRITE(11, '(6E12.4)') a(i,:); ENDO
WRITE(11, '(/, A)') "Matrix A"; iters=0; eold=zero
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
alpha=a(nr,nc)-a(nc,nc)
IF(ABS(alpha)<small)THEN
alpha=zero; alpha=-alpha
ELSE
alpha=(a(nr,nc)+a(nc,nc))/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; ENDO
a=MATMUL(MATMUL(TRANPOSE(a), p), p)
IF(iters<5)THEN
DO i=1,n; WRITE(11, '(6E12.4)') a(i,:); ENDO
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", iters
WRITE(11, '(/, A)') "Eigenvalues of Matrix A"
DO i=1,n; WRITE(11, '(6E12.4)') enew(i); ENDO; WRITE(11, *)
DO i=1,n; a1=a2; DO j=1,n; a1(j,j)=a1(j,j)-a(i,i); ENDO
x=zero; a1(i,i)=penalty; x(i)=penalty; x=eliminate(a1, x); l2=no
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 for Engineers

Second Edition

D.V. Griffiths and I.M. Smith



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Numerical Methods For Engineers International Edition

Xiaolong Qi



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