

```

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', ACTION='WRITE')
READ(10, *)n; READ(10, *)a(n,n); READ(10, *)enew(n), eold(n), p(n)
DO i=1,n; READ(10, *)a1(i,i); END DO; a2=a1
READ(10, *)tol
WRITE(10, *)n
---Jacobi Diagonalization for Eigenvalues of Symmetrical Matrices
WRITE(11, '(/,A)') "Matrix A"; DO i=1,n; WRITE(11, '(6E12.4)') a(i,:);
WRITE(11, '(/,A)') "Matrix A1"; DO i=1,n; WRITE(11, '(6E12.4)') a1(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=hold/a(nc,nc)
IF(ABS(a(nc,nc)-a1)<small)THEN
alpha=zero
ELSE
alpha=(a(nc,nc)-a1)/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; EN
a=MATMUL(MATMUL(TRANPOSE(a), a1), a)
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,/,IS)') "Iterations to Convergence", iters
WRITE(11, '(/,A)') "Matrix A1"; DO i=1,n; WRITE(11, '(6E12.4)') a1(i,:);
DO i=1,n; a1=a2; DO j=1,n; a1(j,j)=a1(j,j)-a(i,i); END DO
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

```

Numerical Methods for Engineers

Second Edition

D.V. Griffiths and I.M. Smith



Chapman & Hall/CRC
Taylor & Francis Group

Numerical Methods For Engineers Second Edition

**S. P. Venkateshan, Prasanna
Swaminathan**



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INTRODUCTION TO NUMERICAL METHODS IN CHEMICAL

ENGINEERING, SECOND EDITION AHUJA, PRADEEP, 2019-08-01 This book is an exhaustive presentation of the applications of numerical methods in chemical engineering. Intended primarily as a textbook for B.E. B.Tech and M.Tech students of chemical engineering, the book will also be useful for research and development process professionals in the fields of chemical, biochemical, mechanical and biomedical engineering. The book, now in its second edition, comprises three parts. Part I on General Chemical Engineering is same as given in the first edition of the book. It explains solving linear and non-linear algebraic equations, chemical engineering thermodynamics problems, initial value problems, boundary value problems and topics related to chemical reaction, dispersion and diffusion as well as steady and transient heat conduction. Whereas Part II and Part III comprising two chapters and six chapters respectively are newly introduced in the present edition. Besides three appendices covering computer programs, have been included. For practice, the book provides students with numerous worked-out examples and chapter-end exercises including their answers. **NEW TO THE SECOND EDITION** Part II on Fixed Bed Catalytic Reactor consists of solving multiple gas phase reactions in a PFR, diffusion and multiple reactions in a catalytic pellet and fixed bed catalytic reactor with multiple reactions. Part III on Multicomponent Distillation consists of solving vapour-liquid-liquid isothermal flash using NRTL model, adiabatic flash using Wilson model, bubble point method, theta method and Naphtali Sandholm method for distillation using modified Raoult's law with Wilson activity coefficient model.

Numerical Methods in Engineering with MATLAB® Jaan Kiusalaas, 2010 This textbook is for engineering students and practising engineers who wish to explore the power and efficiency of MATLAB.

Numerical Methods for Engineers Steven C. Chapra, Raymond P. Canale, 1988 This edition is founded on the basic premise that student engineers should be provided with a strong and early introduction to numerical methods.

Numerical Methods for Engineers and Scientists Using MATLAB® Ramin S. Esfandiari, 2013-06-04 Designed to benefit scientific and engineering applications, Numerical Methods for Engineers and Scientists Using MATLAB focuses on the fundamentals of numerical methods while making use of MATLAB software. The book introduces MATLAB early on and incorporates it throughout the chapters to perform symbolic, graphical and numerical tasks. The text covers a variety of methods from curve fitting to solving ordinary and partial differential equations. Provides fully worked-out examples showing all details. Confirms results through the execution of the user-defined function or the script file. Executes built-in functions for re-confirmation when available. Generates plots regularly to shed light on the soundness and significance of the numerical results. Created to be user-friendly and easily understandable. Numerical Methods for Engineers and Scientists Using MATLAB provides background material and a broad introduction to the essentials of MATLAB, specifically its use with numerical methods. Building on this foundation, it introduces techniques for solving equations and focuses on curve fitting and interpolation techniques. It addresses numerical differentiation and integration methods, presents numerical methods for solving initial value and boundary value problems and discusses the matrix eigenvalue problem which entails numerical methods to approximate a few or all

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Riggs,1988 In this second edition the author has added new problems and updated the accompanying FORTRAN computer programs New library programs are included that perform singular value decomposition of a matrix and apply a conjugate gradient optimizer Discussions have been added on the effect of stiffness on initial value problems and order variable step size integration An IBM compatible disk is included and an Apple and Macintosh disk as well as a solutions manual are available on request Annotation copyright by Book News Inc Portland OR Numerical Methods in Engineering & Science Graham de Vahl Davis,2012-03-01 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education 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 Engineers and applied scientists but not of course mathematicians are more concerned with using methods than with proving that they can be used However they must be satisfied that the methods are fit to be used and it is hoped that students will perform sufficient numerical experiments to convince themselves of this without the need for more than the minimum of theory which is presented here

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