

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I - Semester Examinations, April/May -2012
COMPUTER ORIENTED NUMERICAL METHODS
(STRUCTURAL ENGINEERING)

Time: 3hours

Max. Marks: 60

Answer any five questions
All questions carry equal marks

1. Solve the following system by Gauss- Jacobi and Gauss – Seidel method:
 $10x - 5y - 2z = 3;$
 $4x - 10y + 3z = -3;$
 $x + 6y + 10z = -3.$

2.a) Apply Gauss-Jordan method to find the solution of the following system:
 $10x + y + z = 12;$
 $2x + 10y + z = 13;$
 $x + y + 5z = 7.$

b) Reduce the matrix to the tridiagonal form by Householder's method

$$\begin{bmatrix} 1 & 3 & 4 \\ 3 & 1 & 2 \\ 4 & 1 & 2 \end{bmatrix}$$

3. Fit the quadratic splines with $M(0)=f''(0)=0$. Hence find an estimate of $f(2.5)$ data as given below.
x 0 1 2 3
f(x) 1 2 33 244

4. Solve the following by means of Euler method
 $y' = x + y, y(0) = 1.0$. Find $y(0.1), y(0.5)$.

5. The following table of values are given for a function $f(x,y)$

y/x	0.1	0.2	0.3
0.1	2.0200	2.0351	2.0403
0.2	2.0351	2.0801	2.1153
0.3	2.0403	2.1153	2.1803

- a) Estimate the values of $\delta f/\delta x$ at (0.2, 0.1) and $\delta f/\delta y$ at (0.2, 0.2) by first order and second order formulas.
- b) Estimate the values of $(\delta^2 f/\delta x \delta y)$ at (0.2, 0.2) using second order formula.

6.a) Explain Richardson's extrapolation method.
b) What is beam deflection? Explain.

7.a) Describe how the definition of double integral can be used to find approximations of double integrals over coordinate rectangles.
b) Explain how Simpson's Rule solves double integrals.

8. Find out the undetermined coefficients a, b and c such that the formula is exact for polynomials as higher order as possible and determine the order of truncation error

$$\int_0^h f(x)dx = h \left\{ a f(0) + b f\left(\frac{h}{3}\right) + c f(h) \right\}$$

* * * * *

Computer Oriented Numerical Methods

Goyal



Computer Oriented Numerical Methods:

Computer Oriented Numerical Methods N Datta,2004 This book clearly presents the algorithms required for easy implementation of numerical methods in computer programming The book deals with the important topics of numerical methods including errors in numerical computation in a lucid style Chapter end short questions with answers and appendices with theory questions and C programs are student friendly feature of the book **COMPUTER-ORIENTED NUMERICAL**

METHODS P. THANGARAJ,2008-07-22 Numerical methods are powerful problem solving tools Techniques of these methods are capable of handling large systems of equations nonlinearities and complicated geometries in engineering practice which are impossible to be solved analytically Numerical methods can solve the real world problem using the C program given in this book This well written text explores the basic concepts of numerical methods and gives computational algorithms flow charts and programs for solving nonlinear algebraic equations linear equations curve fitting integration differentiation and differential equations The book is intended for students of B E and B Tech as well as for students of B Sc Mathematics and Physics **KEY FEATURES** Gives clear and precise exposition of modern numerical methods Provides mathematical derivation for each method to build the student s understanding of numerical analysis Presents C programs for each method to help students to implement the method in a programming language Includes several solved examples to illustrate the concepts Contains exercises with answers for practice COMPUTER ORIENTED NUMERICAL METHODS ,1996

Computer-oriented Mathematics Ladis D. Kovach,1969 Computer Oriented Numerical Methods Vaidyeswaran Rajaraman,1980 Fundamentals of Numerical Computation (Computer-Oriented Numerical Analysis) G. Alefeld,R. Grigorieff,2012-12-06 Computer Oriented Numerical Methods, 1E Benjamin Bryan,2014-11-01 Numerical Analysis is a way to solve the real life mathematical physical and engineering problems Numerical Analysis can be used to answer the problems for which the analytical solution is not available **Computer Oriented Numerical Methods** Lance

Diaz,2014-11-01 Numerical Analysis is a way to solve the real life mathematical physical and engineering problems Numerical Analysis can be used to answer the problems for which the analytical solution is not available COMPUTER ORIENTED NUMERICAL METHODS, FOURTH EDITION RAJARAMAN, V.,2018-11-01 This book is a concise and lucid introduction to computer oriented numerical methods with well chosen graphical illustrations that give an insight into the mechanism of various methods The book develops computational algorithms for solving non linear algebraic equation sets of linear equations curve fitting integration differentiation and solving ordinary differential equations **OUTSTANDING FEATURES** Elementary presentation of numerical methods using computers for solving a variety of problems for students who have only basic level knowledge of mathematics Geometrical illustrations used to explain how numerical algorithms are evolved Emphasis on implementation of numerical algorithm on computers Detailed discussion of IEEE standard for representing floating point numbers Algorithms derived and presented using a simple English based structured language

Truncation and rounding errors in numerical calculations explained Each chapter starts with learning goals and all methods illustrated with numerical examples Appendix gives pointers to open source libraries for numerical computation

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