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THIS COMPREHENSIVE TEXT IS AN EXCELLENT RESOURCE FOR STUDENTS AND PRACTICING ENGINEERS PROVIDING AN EXCELLENT BALANCE OF THEORETICAL AND APPLIED TOPICS IT SHOWS THE NUMERICAL METHODS USED WITH C C AND MATLAB THIS BOOK IS DESIGNED TO COVER ALL OF THE MATHEMATICAL TOPICS REQUIRED IN THE TYPICAL ENGINEERING CURRICULUM HUNDREDS OF EXAMPLES WITH WORKED OUT SOLUTIONS PROVIDE A SELF STUDY FORMAT FOR BOTH ENGINEERING STUDENTS AND AS A REFRESHER COURSE FOR PRACTICING ENGINEERS COVERS ALGEBRA VECTORS GEOMETRY CALCULUS SERIES DIFFERENTIAL EQUATIONS COMPLEX ANALYSIS TRANSFORMS NUMERICAL METHODS STATISTICS AND SPECIAL TOPICS INTENDED AS AN INTRODUCTION TO NUMERICAL METHODS FOR SCIENTISTS AND ENGINEERS THIS BOOK PROVIDES AN EXCELLENT BALANCE OF THEORETICAL AND APPLIED TOPICS AND SHOWS THE NUMERICAL METHODS USED WITH C C AND MATLAB DURING THE PAST TWO DECADES OWING TO THE ADVENT OF DIGITAL COMPUTERS NUMERICAL METHODS OF ANALYSIS HAVE BECOME VERY POPULAR FOR THE SOLUTION OF COMPLEX PROBLEMS IN PHYSICAL AND MANAGEMENT SCIENCES AND IN ENGINEERING AS THE PRICE OF HARDWARE KEEPS DECREASING REPIDLY EXPERTS PREDICT THAT IN THE NEAR FUTURE ONE MAY HAVE TO PAY ONLIY FOR SODTWARE THIS UNDERSCORES THE IMPORTANCE OF NUMERICAL COMPUTATION TO THE SCIENTIST AND ENGINEERS AND TODAY MOST UNDERGRADUATES AND POSTGRADUATES ARE BEING GIVEN TRAINING IN THE USE OF COMPUTERS AND ACCESS TO THE COMPUTERS FOR THE SOLUTION OF PROBLEMS THIS BOOK ENTITLED INTRODUCTION TO NUMERICAL ANALYSIS HAS BEEN DESIGNED FOR SCIENCE ENGINEERING MATHEMATICS AND STATISTICS UNDERGRADUATE STUDENTS AS A PART OF THEIR NUMERICAL ANALYSIS COURSE A LOOK OF THE CONTENTS OF THE BOOK WILL GIVE THE READER A CLEAR IDEA OF THE VARIETY OF NUMERICAL METHODS DISCUSSED AND ANALYSED THE BOOK HAS BEEN WRITTEN IN A VERY DETAIL MANNER NUMEROUS SOLVED AND UNSOLVED PROBLEM ARE GIVEN OFFERING A CLEAR PRECISE AND ACCESSIBLE PRESENTATION THIS BOOK GIVES STUDENTS THE SOLID SUPPORT THEY NEED TO MASTER BASIC NUMERICAL ANALYSIS TECHNIQUES IT IS SUITABLE FOR A COURSE IN NUMERICAL METHODS FOR UNDER GRADUATE STUDENTS OF ALL BRANCHES OF ENGINEERING STUDENTS OF MASTER OF COMPUTER APPLICATIONS MCA AND BACHELOR OF COMPUTER APPLICATIONS BCA AND STUDENTS PURSUING DIPLOMA COURSES IN ENGINEERING DISCIPLINES THE BOOK CAN ALSO SERVE AS A USEFUL REFERENCE FOR STUDENTS OF MATHE MATICS AND STATISTICS THE BOOK FOCUSES ON CORE AREAS OF NUMERICAL ANALYSIS SUCH AS ERRORS IN NUMERICAL COMPUTATION ROOT FINDING SOLUTION OF ALGEBRAIC EQUATIONS INTERPOLATION NUMERICAL CALCULUS INITIAL VALUE PROBLEMS BOUNDARY VALUE PROBLEMS AND EIGENVALUES THE UNDERLYING MATHEMATICAL CONCEPTS ARE HIGH LIGHTED THROUGH NUMEROUS WORKED OUT EXAMPLES THE SECTION END EXERCISES CONTAIN PLENTY OF PROBLEMS WITH APPROPRIATE HINTS IN ORDER TO MOTIVATE THE STUDENTS TO WORK OUT PROBLEMS FOR A DEEPER INSIGHT INTO SUBJECT CONCEPTS THE BOOK IS DESIGNED AS AN INTRODUCTORY UNDERGRADUATE AND GRADUATE COURSE FOR ENGINEERING SCIENCE AND MATHEMATICS STUDENTS OF ALL DESCIPLINES THE NUMERICAL METHODS BOOK COVERS ALL THE MAJOR AASPECTS SUCH AS NUMERICAL COMPUTATION LINEAR SYSTEM OF EQUATIONS SOLUTIONS OF ALGENRIC AND TRANSCENDENTAL EQUATIONS NUMERICAL DIFFERENTIATION FINITE DIFFERENCES AND INTERPOLATION CURVE FITTING REGRESSION AND CORRELATION NUMERICAL INTEGRATION AND SOLUTIONS OF ORDINAY AND PARTIAL DIFFERENTIAL EQUATIONS THIS BOOK IS WRITTEN IN SIMPLE AND EASY LANGUAGE IN SYSTEMATIC MANNER STUDENT FRIENDLY AND NUMERICAL PROBLEM SOLVING ORIENTATION BALANCE IS MAINTAINED BETWEEN THEORY AND ITS EXAMPLES EACH CONCEPT CAN BE JUSTIFIED WITH THE HELP OF EXAMPLES WHICH IS UNAVAILABLE IN OTHER BOOKS AS STUDENT MAY COME DILEMMA TO FIND THE SOLUTION OF THE CONCEPT FROM OTHER BOOKS SO LEARNING IS WITH THE HELP OF EXAMPLES AS EXAMPLES ARE THE BEST SOURCE TO LEARN AND REMEMBER THAT PARTICULAR PROBLEM AT THE END OF CHAPTERS EXCERCISE QUESTIONS WILL BE GIVEN OFFERS A COMPREHENSIVE TEXTBOOK FOR A COURSE IN NUMERICAL METHODS NUMERICAL ANALYSIS AND NUMERICAL TECHNIQUES FOR UNDERGRADUATE ENGINEERING STUDENTS ENGINEERING MATHEMATIC DEALS WITH METHODS OF OBTAINING NUMERICAL SOLUTIONS TO ENGINEERING PROBLEMS TOPICS DISCUSSED INCLUDE AN INTRODUCTION TO DIGITAL COMPUTERS FUNCTION REPRESENTATION USING TAYLOR S SERIES ERROR CONSIDERATIONS IN ITERATIVE TYPE COMPUTATIONS SEARCHING FOR ROOTS OF EQUATIONS IN A SINGLE VARIABLE AND THE SOLUTION OF SIMULTANEOUS EQUATIONS THE DESIRE FOR NUMERICAL ANSWERS TO APPLIED PROBLEMS HAS INCREASED MANIFOLD WITH THE ADVANCES MADE IN VARIOUS BRANCHES OF SCIENCE AND ENGINEERING AND RAPID DEVELOPMENT OF HIGH SPEED DIGITAL COMPUTERS ALTHOUGH NUMERICAL METHODS HAVE ALWAYS BEEN USEFUL THEIR ROLE IN THE PRESENT DAY SCIENTIFIC COMPUTATIONS AND RESEARCH IS OF FUNDAMENTAL IMPORTANCE NUMEROUS DISTINGUISHING FEATURES THE CONTENTS OF THE BOOK HAVE BEEN ORGANIZED IN A LOGICAL ORDER AND THE TOPICS ARE DISCUSSED IN A SYSTEMATIC MANNER CONCEPTS ALGORITHMS AND NUMEROUS EXERCISES AT THE END OF EACH CHAPTER HELPS STUDENTS IN PROBLEM SOLVING BOTH MANUALLY AND THROUGH COMPUTER PROGRAMMING AN EXHAUSTIVE BIBLIOGRAPHY AND AN APPENDIX CONTAINING SOME IMPORTANT AND USEFUL ITERATIVE METHODS FOR THE SOLUTION OF NONLINEAR COMPLEX EQUATIONS ENGINEERING MATHEMATICS DEVELOPS THE SUBJECT GRADUALLY BY ILLUSTRATING SEVERAL EXAMPLES FOR BOTH THE BEGINNERS AND THE ADVANCED READERS USING VERY SIMPLE LANGUAGE CLASSICAL AND RECENTLY DEVELOPED NUMERICAL METHODS ARE DERIVED FROM MATHEMATICAL AND COMPUTATIONAL POINTS OF VIEW NUMERICAL METHODS TO SOLVE ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS ARE ALSO PRESENTED PRADIP NARAIN POPULARLY KNOWN AS PN SIR HAS BEEN TEACHING UNDERGRADUATE AND POST GRADUATE STUDENTS OF MATHEMATICS FOR OVER THIRTY YEARS AFTER TOPPING THE DELHI UNIVERSITY IN MA MATHEMATICS FROM ST STEPHEN S COLLEGE HE TAUGHT IN THE DEPARTMENT OF MATHEMATICS ECONOMICS AND COMMERCE AT ST STEPHEN S COLLEGE HINDU COLLEGE AND JESUS AND MARY COLLEGE AND IN THE DEPARTMENT OF BUSINESS ECONOMICS AT UNIVERSITY OF DELHI SOUTH CAMPUS HE IS CURRENTLY THE DIRECTOR OF ALPHA PLUS STUDY CIRCLE TAJENDER SINGH SALUJA TEACHES NACP AND MECHANICS AT PNS ALPHA PLUS STUDY CIRCLE HE IS WELL KNOWN FOR HIS LUCID EFFECTIVE STYLE OF TEACHING AS A STUDENT HE HAD RECEIVED A SILVER MEDAL IN THE NATIONAL MATHEMATICS OLYMPIAD SALIENT FEATURES ? ? COVERS BOTH NUMERICAL ANALYSIS NA AND COMPUTER PROGRAMMING CP IN A SINGLE VOLUME ? ? WRITTEN STRICTLY ACCORDING TO THE SYLLABUS AND GUIDELINES OF BA BSC MATHEMATICS HONS OF DELHI UNIVERSITY ? ? ALSO USEFUL FOR OTHER INDIAN UNIVERSITIES AND COMPETITIVE EXAMINATIONS ? ? CONCEPTS METHODS 137 QUESTIONS 76 EXAMPLES AND 58 ASSIGNMENTS GIVEN IN A SIMPLE STEP BY STEP GRADED FORM ? ? FORMULATION OF 59 PROGRAMS MADE EASY ? ? PERFECT FOR SELF STUDY NO TEACHER REQUIRED ? ? ALL GUIDELINES PROBLEMS FULLY SOLVED ? ? ALL QUESTIONS OF UNIVERSITY EXAMINATIONS SINCE 1994 INCLUDED AND SOLVED IN THE TEXT AT RELEVANT PLACES ? ? CONTAINS FREQUENCY TABLE INDICATING THE IMPORTANCE OF EACH TOPIC AN INTRODUCTION TO NUMERICAL ANALYSIS IS DESIGNED FOR A FIRST COURSE ON NUMERICAL ANALYSIS FOR STUDENTS OF SCIENCE AND ENGINEERING INCLUDING COMPUTER SCIENCE THE BOOK CONTAINS DERIVATION OF ALGORITHMS FOR SOLVING ENGINEERING AND SCIENCE PROBLEMS AND ALSO DEALS WITH

ERROR ANALYSIS IT HAS NUMERICAL EXAMPLES SUITABLE FOR SOLVING THROUGH COMPUTERS THE SPECIAL FEATURES ARE COMPARATIVE EFFICIENCY AND ACCURACY OF VARIOUS ALGORITHMS DUE TO FINITE DIGIT ARITHMETIC USED BY THE COMPUTERS DIGITAL COMPUTERS DESK MACHINES ERRORS IN COMPUTATIONS FINITE DIFFERENCE METHODS RECURRENCE RELATIONS AND ALGEBRAIC EQUATIONS NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS MATRICES RELAXATION METHODS NUMERICAL METHODS FOR UNEQUAL INTERVALS A TEXT BOOK DESIGNED EXCLUSIVELY FOR UNDERGRADUATE STUDENTS NUMERICAL ANALYSIS PRESENTS THE THEORETICAL AND NUMERICAL DERIVATIONS AMPLY SUPPORTED BY RICH PEDAGOGY FOR PRACTICE WITH EXHAUSTIVE THEORY TO REINFORCE PRACTICAL COMPUTATIONS THE BOOK DELVES INTO THE CONCEPTS OF ERRORS IN NUMERICAL COMPUTATION ALGEBRAIC AND TRANSCENDENTAL EQUATIONS SOLUTION OF LINEAR SYSTEM OF EQUATION CURVE FITTING INITIAL VALUE PROBLEM FOR ORDINARY DIFFERENTIAL EQUATIONS BOUNDARY VALUE PROBLEMS OF SECOND ORDER PARTIAL DIFFERENTIAL EQUATIONS AND SOLUTION OF DIFFERENCE EQUATIONS WITH CONSTANT COEFFICIENT THE PRESENT TREATISE IS INTENDED TO COVER THE SYLLABI OF DIFFERENT INDIAN UNIVERSITIES IN STATISTICS HONS AND MATHEMATICS HONS COURSES EVEN THE STUDENTS OF ENGINEERING MAY ALSO BE BEFITTED BY THE BOOK NUMERICAL METHODS IS A MATHEMATICAL TOOL USED BY ENGINEERS AND MATHEMATICIANS TO DO SCIENTIFIC CALCULATIONS IT IS USED TO FIND SOLUTIONS TO APPLIED PROBLEMS WHERE ORDINARY ANALYTICAL METHODS FAIL THIS BOOK IS INTENDED TO SERVE FOR THE NEEDS OF CO PRESENTS THE FUNDAMENTAL CONCEPTS OF NUMERICAL METHODS FOR STUDENTS OF MATHEMATICS PHYSICS AND ENGINEERING THE TEXT STRIKES A BALANCE BETWEEN ABSTRACT AND APPLIED EXPOSITIONS OF NUMERICAL ANALYSIS INSOFAR AS POSSIBLE EACH CONCEPT IS DEVELOPED IN A CLEAR AND CONCISE MANNER AND ILLUSTRATED BY PEDAGOGICALLY SOUND EXAMPLES SO THAT THE MATERIAL CAN BE ASSIMILATED EVEN IF THE THEORETICAL DEVELOPMENT IS NOT FULLY UNDERSTOOD THE BOOK CATERS TO READERS WHO ARE INTERESTED IN THE APPLICATIONS OF NUMERICAL METHODS IT WILL ALSO BE OF INTEREST TO THE STUDENTS OF PURE MATHEMATICS WHO ARE EXPOSED TO THE NUMERICAL METHODS FOR THE FIRST TIME ITERATIVE METHODS OR THOSE METHODS BY WHICH APPROXIMATIONS ARE IMPROVED UNTIL ONE RECEIVES AN ACCURATE VALUE COMPRISE AN IMPORTANT LEARNING OBJECTIVE IN MATHEMATICS THE PRIMARY OBJECTIVE OF THIS BOOK IS TO INCORPORATE IMPORTANT ITERATIVE METHODS IN A SINGLE VOLUME TO ENABLE STUDENTS AND RESEARCHERS TO APPLY ITERATIVE TECHNIQUES TO SCIENTIFIC AND ENGINEERING PROBLEMS THIS BOOK IS DESIGNED TO MEET THE SYLLABUS REQUIREMENTS OF ENGINEERING MATHEMATICS AND COMPUTER SCIENCE COURSES OF VARIOUS UNIVERSITIES IN INDIA ALL THE STANDARD TOPICS ARE COVERED IN DETAIL EACH CHAPTER CONTAINS NUMEROUS WORKED OUT EXAMPLES ALONG WITH NUMBER OF EXERCISE PROBLEMS ANSWERS TO THE EXERCISE PROBLEMS ARE GIVEN AT THE END OF THE BOOK THIS BOOK CONTAINS MORE THAN 200 SHORT QUESTIONS WITH ANSWERS A NEW CHAPTER ON NUMERICAL ALGORITHMS IN C IS INCLUDED IN THE CURRENT EDITION HERE IS AN EASY TO UNDERSTAND TEXT THAT HELPS YOU TAKE ADVANTAGE OF PERSONAL COMPUTERS TO GRASP NUMERICAL METHODS WITHOUT SPENDING AN EXCESSIVE AMOUNT OF TIME THE BOOK IS DESIGNED TO BE A TEXT FOR THE FIRST COURSE IN NUMERICAL ANALYSIS IN COLLEGE IT PRESENTS THE METHODS IN A SYSTEMATIC MANNER A COMPUTER PROGRAM FOR EACH METHOD A SAMPLE PROBLEM FOR EACH PROGRAM THE SOURCE LINES OF EACH PROGRAM IN BASIC ALL PROGRAMS ARE STORED ON A FLOPPY DISC WHICH COMES WITH THE BOOK YOU WILL BE ABLE TO SOLVE MANY OF YOUR OWN PROBLEMS BY JUST CHANGING A FEW LINES OF THE PROGRAMS THE ANALYTICAL FORMULAS ARE DERIVED IN THE SIMPLEST POSSIBLE MANNER UTMOST CLARITY IN PRESENTATION HAS BEEN A MAJOR GOAL WHILE WRITING THIS BOOK THREE PROFESSORS OF MATHEMATICS WHO REVIEWED THE BOOK HAVE THE FOLLOWING COMMENTS VERY READABLE VERY PRACTICAL VERY COMPUTER ORIENTED THE AUTHOR RECEIVED HIS PH D IN MECHANICS IN 1970 FROM ILLINOIS INSTITUTE OF TECHNOLOGY CHICAGO ILL HE HAS TAUGHT MATHEMATICS ENGINEERING COURSES AT VARIOUS UNIVERSITIES HE HAS MORE THAN 20 YEARS TO HIS CREDIT IN APPLYING NUMERICAL METHODS TO ENGINEERING PROBLEMS

Numerical Methods in Engineering and Science

2018-09-04

THIS COMPREHENSIVE TEXT IS AN EXCELLENT RESOURCE FOR STUDENTS AND PRACTICING ENGINEERS PROVIDING AN EXCELLENT BALANCE OF THEORETICAL AND APPLIED TOPICS IT SHOWS THE NUMERICAL METHODS USED WITH C C AND MATLAB

Numerical Methods in Engineering and Science

1996

THIS BOOK IS DESIGNED TO COVER ALL OF THE MATHEMATICAL TOPICS REQUIRED IN THE TYPICAL ENGINEERING CURRICULUM HUNDREDS OF EXAMPLES WITH WORKED OUT SOLUTIONS PROVIDE A SELF STUDY FORMAT FOR BOTH ENGINEERING STUDENTS AND AS A REFRESHER COURSE FOR PRACTICING ENGINEERS COVERS ALGEBRA VECTORS GEOMETRY CALCULUS SERIES DIFFERENTIAL EQUATIONS COMPLEX ANALYSIS TRANSFORMS NUMERICAL METHODS STATISTICS AND SPECIAL TOPICS

Advanced Engineering Mathematics

2018-08-31

INTENDED AS AN INTRODUCTION TO NUMERICAL METHODS FOR SCIENTISTS AND ENGINEERS THIS BOOK PROVIDES AN EXCELLENT BALANCE OF THEORETICAL AND APPLIED TOPICS AND SHOWS THE NUMERICAL METHODS USED WITH C C AND MATLAB

Numerical Methods in Engineering and Science

2019

DURING THE PAST TWO DECADES OWING TO THE ADVENT OF DIGITAL COMPUTERS NUMERICAL METHODS OF ANALYSIS HAVE BECOME VERY POPULAR FOR THE SOLUTION OF COMPLEX PROBLEMS IN PHYSICAL AND MANAGEMENT SCIENCES AND IN ENGINEERING AS THE PRICE OF HARDWARE KEEPS DECREASING REPIDLY EXPERTS PREDICT THAT IN THE NEAR FUTURE ONE MAY HAVE TO PAY ONLIY FOR SODTWARE THIS UNDERSCORES THE IMPORTANCE OF NUMERICAL COMPUTATION TO THE SCIENTIST AND ENGINEERS AND TODAY MOST UNDERGRADUATES AND POSTGRADUATES ARE BEING GIVEN TRAINING IN THE USE OF COMPUTERS AND ACCESS TO THE COMPUTERS FOR THE SOLUTION OF PROBLEMS

Numerical Methods in Science and Engineering ？ A Practical Approach

2003

THIS BOOK ENTITLED INTRODUCTION TO NUMERICAL ANALYSIS HAS BEEN DESIGNED FOR SCIENCE ENGINEERING MATHEMATICS AND STATISTICS UNDERGRADUATE STUDENTS AS A PART OF THEIR NUMERICAL ANALYSIS COURSE A LOOK OF THE CONTENTS OF THE BOOK WILL GIVE THE READER A CLEAR IDEA OF THE VARIETY OF NUMERICAL METHODS DISCUSSED AND ANALYSED THE BOOK HAS BEEN WRITTEN IN A VERY DETAIL MANNER NUMEROUS SOLVED AND UNSOLVED PROBLEM ARE GIVEN

Introduction To Numerical Analysis

2020-10-08

OFFERING A CLEAR PRECISE AND ACCESSIBLE PRESENTATION THIS BOOK GIVES STUDENTS THE SOLID SUPPORT THEY NEED TO MASTER BASIC NUMERICAL ANALYSIS TECHNIQUES IT IS SUITABLE FOR A COURSE IN NUMERICAL METHODS FOR UNDER GRADUATE STUDENTS OF ALL BRANCHES OF ENGINEERING STUDENTS OF MASTER OF COMPUTER APPLICATIONS MCA AND BACHELOR OF COMPUTER APPLICATIONS BCA AND STUDENTS PURSUING DIPLOMA COURSES IN ENGINEERING DISCIPLINES THE BOOK CAN ALSO SERVE AS A USEFUL REFERENCE FOR STUDENTS OF MATHE MATICS AND STATISTICS THE BOOK FOCUSES ON CORE AREAS OF NUMERICAL ANALYSIS SUCH AS ERRORS IN NUMERICAL COMPUTATION ROOT FINDING SOLUTION OF ALGEBRAIC EQUATIONS INTERPOLATION NUMERICAL CALCULUS INITIAL VALUE PROBLEMS BOUNDARY VALUE PROBLEMS AND EIGENVALUES THE UNDERLYING MATHEMATICAL CONCEPTS ARE HIGH LIGHTED THROUGH NUMEROUS WORKED OUT EXAMPLES THE SECTION END EXERCISES CONTAIN PLENTY OF PROBLEMS WITH APPROPRIATE HINTS IN ORDER TO MOTIVATE THE STUDENTS TO WORK OUT PROBLEMS FOR A DEEPER INSIGHT INTO SUBJECT CONCEPTS

Higher Engineering Mathematics 40th Edition

2008-02-12

THE BOOK IS DESIGNED AS AN INTRODUCTORY UNDERGRADUATE AND GRADUATE COURSE FOR ENGINEERING SCIENCE AND MATHEMATICS STUDENTS OF ALL DESCIPLINES THE NUMERICAL METHODS BOOK COVERS ALL THE MAJOR AASPECTS SUCH AS NUMERICAL COMPUTATION LINEAR SYSTEM OF EQUATIONS SOLUTIONS OF ALGENRIC AND TRANSCENDENTAL EQUATIONS NUMERICAL DIFFERENTIATION FINITE DIFFERENCES AND INTERPOLATION CURVE FITTING REGRESSION AND CORRELATION NUMERICAL INTEGRATION AND SOLUTIONS OF ORDINAY AND PARTIAL DIFFERENTIAL EQUATIONS THIS BOOK IS WRITTEN IN SIMPLE AND EASY LANGUAGE IN SYSTEMATIC MANNER STUDENT FRIENDLY AND NUMERICAL PROBLEM SOLVING ORIENTATION BALANCE IS MAINTAINED BETWEEN THEORY AND ITS EXAMPLES EACH CONCEPT CAN BE JUSTIFIED WITH THE HELP OF EXAMPLES WHICH IS UNAVAILABLE IN OTHER BOOKS AS STUDENT MAY COME DILEMMA TO FIND THE SOLUTION OF THE CONCEPT FROM OTHER BOOKS SO LEARNING IS WITH THE HELP OF EXAMPLES AS EXAMPLES ARE THE BEST SOURCE TO LEARN AND REMEMBER THAT PARTICULAR PROBLEM AT THE END OF CHAPTERS EXCERCISE QUESTIONS WILL BE GIVEN

Numerical Analysis

2019-08

OFFERS A COMPREHENSIVE TEXTBOOK FOR A COURSE IN NUMERICAL METHODS NUMERICAL ANALYSIS AND NUMERICAL TECHNIQUES FOR UNDERGRADUATE ENGINEERING STUDENTS

Numerical Methods

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ENGINEERING MATHEMATIC

Numerical Methods

2007

DEALS WITH METHODS OF OBTAINING NUMERICAL SOLUTIONS TO ENGINEERING PROBLEMS TOPICS DISCUSSED INCLUDE AN INTRODUCTION TO DIGITAL COMPUTERS FUNCTION REPRESENTATION USING TAYLOR S SERIES ERROR CONSIDERATIONS IN ITERATIVE TYPE COMPUTATIONS SEARCHING FOR ROOTS OF EQUATIONS IN A SINGLE VARIABLE AND THE SOLUTION OF SIMULTANEOUS EQUATIONS

Engineering Mathematics Volume - II (Numerical Methods and Complex Variables) (For 1st Year, 1st Semester of JNTU, Kakinada)

2004

THE DESIRE FOR NUMERICAL ANSWERS TO APPLIED PROBLEMS HAS INCREASED MANIFOLD WITH THE ADVANCES MADE IN VARIOUS BRANCHES OF SCIENCE AND ENGINEERING AND RAPID DEVELOPMENT OF HIGH SPEED DIGITAL COMPUTERS ALTHOUGH NUMERICAL METHODS HAVE ALWAYS BEEN USEFUL THEIR ROLE IN THE PRESENT DAY SCIENTIFIC COMPUTATIONS AND RESEARCH IS OF FUNDAMENTAL IMPORTANCE NUMEROUS DISTINGUISHING FEATURES THE CONTENTS OF THE BOOK HAVE BEEN ORGANIZED IN A LOGICAL ORDER AND THE TOPICS ARE DISCUSSED IN A SYSTEMATIC MANNER CONCEPTS ALGORITHMS AND NUMEROUS EXERCISES AT THE END OF EACH CHAPTER HELPS STUDENTS IN PROBLEM SOLVING BOTH MANUALLY AND THROUGH COMPUTER PROGRAMMING AN EXHAUSTIVE BIBLIOGRAPHY AND AN APPENDIX CONTAINING SOME IMPORTANT AND USEFUL ITERATIVE METHODS FOR THE SOLUTION OF NONLINEAR COMPLEX EQUATIONS

Numerical Analysis in Engineering

2014-01-15

ENGINEERING MATHEMATICS

Numerical Methods for Engineers and Scientists

2007

DEVELOPS THE SUBJECT GRADUALLY BY ILLUSTRATING SEVERAL EXAMPLES FOR BOTH THE BEGINNERS AND THE ADVANCED READERS USING VERY SIMPLE LANGUAGE CLASSICAL AND RECENTLY DEVELOPED NUMERICAL METHODS ARE DERIVED FROM MATHEMATICAL AND COMPUTATIONAL POINTS OF VIEW NUMERICAL METHODS TO SOLVE ORDINARY AND PARTIAL DIFFERENTIAL EQUATIONS ARE ALSO PRESENTED

Engineering Mathematics Volume - III (Statistical and Numerical Methods) (For 1st Year - 2nd Semester of JNTU, Hyderabad)

2008

PRADIP NARAIN POPULARLY KNOWN AS PN SIR HAS BEEN TEACHING UNDERGRADUATE AND POST GRADUATE STUDENTS OF MATHEMATICS FOR OVER THIRTY YEARS AFTER TOPPING THE DELHI UNIVERSITY IN MA MATHEMATICS FROM ST STEPHEN S COLLEGE HE TAUGHT IN THE DEPARTMENT OF MATHEMATICS ECONOMICS AND COMMERCE AT ST STEPHEN S COLLEGE HINDU COLLEGE AND JESUS AND MARY COLLEGE AND IN THE DEPARTMENT OF BUSINESS ECONOMICS AT UNIVERSITY OF DELHI SOUTH CAMPUS HE IS CURRENTLY THE DIRECTOR OF ALPHA PLUS STUDY CIRCLE TAJENDER SINGH SALUJA TEACHES NACP AND MECHANICS AT PNS ALPHA PLUS STUDY CIRCLE HE IS WELL KNOWN FOR HIS LUCID EFFECTIVE STYLE OF TEACHING AS A STUDENT HE HAD RECEIVED A SILVER MEDAL IN THE NATIONAL MATHEMATICS OLYMPIAD SALIENT FEATURES ⁇ ⁇ COVERS BOTH NUMERICAL ANALYSIS NA AND COMPUTER PROGRAMMING CP IN A SINGLE VOLUME ⁇ ⁇ WRITTEN STRICTLY ACCORDING TO THE SYLLABUS AND GUIDELINES OF BA BSC MATHEMATICS HONS OF DELHI UNIVERSITY ⁇ ⁇ ALSO USEFUL FOR OTHER INDIAN UNIVERSITIES AND COMPETITIVE EXAMINATIONS ⁇ ⁇ CONCEPTS METHODS 137 QUESTIONS 76 EXAMPLES AND 58 ASSIGNMENTS GIVEN IN A SIMPLE STEP BY STEP GRADED FORM ⁇ ⁇ FORMULATION OF 59 PROGRAMS MADE EASY ⁇ ⁇ PERFECT FOR SELF STUDY NO TEACHER REQUIRED ⁇ ⁇ ALL GUIDELINES PROBLEMS FULLY SOLVED ⁇ ⁇ ALL QUESTIONS OF UNIVERSITY EXAMINATIONS SINCE 1994 INCLUDED AND SOLVED IN THE TEXT AT RELEVANT PLACES ⁇ ⁇ CONTAINS FREQUENCY TABLE INDICATING THE IMPORTANCE OF EACH TOPIC

Numerical Analysis

2021-08-30

AN INTRODUCTION TO NUMERICAL ANALYSIS IS DESIGNED FOR A FIRST COURSE ON NUMERICAL ANALYSIS FOR STUDENTS OF SCIENCE AND ENGINEERING INCLUDING COMPUTER SCIENCE THE BOOK CONTAINS DERIVATION OF ALGORITHMS FOR SOLVING ENGINEERING AND SCIENCE PROBLEMS AND ALSO DEALS WITH ERROR ANALYSIS IT HAS NUMERICAL EXAMPLES SUITABLE FOR SOLVING THROUGH COMPUTERS THE SPECIAL FEATURES ARE COMPARATIVE EFFICIENCY AND ACCURACY OF VARIOUS ALGORITHMS DUE TO FINITE DIGIT ARITHMETIC USED BY THE COMPUTERS

Numerical Analysis for Scientists and Engineers

2006

DIGITAL COMPUTERS DESK MACHINES ERRORS IN COMPUTATIONS FINITE DIFFERENCE METHODS RECURRENCE RELATIONS AND ALGEBRAIC EQUATIONS NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS MATRICES RELAXATION METHODS NUMERICAL METHODS FOR UNEQUAL INTERVALS

Numerical Analysis and Computer Programming

1965

A TEXT BOOK DESIGNED EXCLUSIVELY FOR UNDERGRADUATE STUDENTS NUMERICAL ANALYSIS PRESENTS THE THEORETICAL AND NUMERICAL DERIVATIONS AMPLY SUPPORTED BY RICH PEDAGOGY FOR PRACTICE WITH EXHAUSTIVE THEORY TO REINFORCE PRACTICAL COMPUTATIONS THE BOOK DELVES INTO THE CONCEPTS OF ERRORS IN NUMERICAL COMPUTATION ALGEBRAIC AND TRANSCENDENTAL EQUATIONS SOLUTION OF LINEAR SYSTEM OF EQUATION CURVE FITTING INITIAL VALUE PROBLEM FOR ORDINARY DIFFERENTIAL EQUATIONS BOUNDARY VALUE PROBLEMS OF SECOND ORDER PARTIAL DIFFERENTIAL EQUATIONS AND SOLUTION OF DIFFERENCE EQUATIONS WITH CONSTANT COEFFICIENT

NUMERICAL METHODS FOR GRADUATES

2014-01-15

THE PRESENT TREATISE IS INTENDED TO COVER THE SYLLABI OF DIFFERENT INDIAN UNIVERSITIES IN STATISTICS HONS AND MATHEMATICS HONS COURSES EVEN THE STUDENTS OF ENGINEERING MAY ALSO BE BEFITTED BY THE BOOK

Introduction to Numerical Analysis

2014-01-15

NUMERICAL METHODS IS A MATHEMATICAL TOOL USED BY ENGINEERS AND MATHEMATICIANS TO DO SCIENTIFIC CALCULATIONS IT IS USED TO FIND SOLUTIONS TO APPLIED PROBLEMS WHERE ORDINARY ANALYTICAL METHODS FAIL THIS BOOK IS INTENDED TO SERVE FOR THE NEEDS OF CO

Numerical Analysis

2014-01-15

PRESENTS THE FUNDAMENTAL CONCEPTS OF NUMERICAL METHODS FOR STUDENTS OF MATHEMATICS PHYSICS AND ENGINEERING THE TEXT STRIKES A BALANCE BETWEEN ABSTRACT AND APPLIED EXPOSITIONS OF NUMERICAL ANALYSIS INSOFAR AS POSSIBLE EACH CONCEPT IS DEVELOPED IN A CLEAR AND CONCISE MANNER AND ILLUSTRATED BY PEDAGOGICALLY SOUND EXAMPLES SO THAT THE MATERIAL CAN BE ASSIMILATED EVEN IF THE THEORETICAL DEVELOPMENT IS NOT FULLY UNDERSTOOD THE BOOK CATERS TO READERS WHO ARE INTERESTED IN THE APPLICATIONS OF NUMERICAL METHODS IT WILL ALSO BE OF INTEREST TO THE STUDENTS OF PURE MATHEMATICS WHO ARE EXPOSED TO THE NUMERICAL METHODS FOR THE FIRST TIME

Numerical Analysis

2001

ITERATIVE METHODS OR THOSE METHODS BY WHICH APPROXIMATIONS ARE IMPROVED UNTIL ONE RECEIVES AN ACCURATE VALUE COMPRISE AN IMPORTANT LEARNING OBJECTIVE IN MATHEMATICS THE PRIMARY OBJECTIVE OF THIS BOOK IS TO INCORPORATE IMPORTANT ITERATIVE METHODS IN A SINGLE VOLUME TO ENABLE STUDENTS AND RESEARCHERS TO APPLY ITERATIVE TECHNIQUES TO SCIENTIFIC AND ENGINEERING PROBLEMS

Numerical Analysis

2014

THIS BOOK IS DESIGNED TO MEET THE SYLLABUS REQUIREMENTS OF ENGINEERING MATHEMATICS AND COMPUTER SCIENCE COURSES OF VARIOUS UNIVERSITIES IN INDIA ALL THE STANDARD TOPICS ARE COVERED IN DETAIL EACH CHAPTER CONTAINS NUMEROUS WORKED OUT EXAMPLES ALONG WITH NUMBER OF EXERCISE PROBLEMS ANSWERS TO THE EXERCISE PROBLEMS ARE GIVEN AT THE END OF THE BOOK THIS BOOK CONTAINS MORE THAN 200 SHORT QUESTIONS WITH ANSWERS A NEW CHAPTER ON NUMERICAL ALGORITHMS IN C IS INCLUDED IN THE CURRENT EDITION

Numerical Analysis

2011

HERE IS AN EASY TO UNDERSTAND TEXT THAT HELPS YOU TAKE ADVANTAGE OF PERSONAL COMPUTERS TO GRASP NUMERICAL METHODS WITHOUT SPENDING AN EXCESSIVE AMOUNT OF TIME THE BOOK IS DESIGNED TO BE A TEXT FOR THE FIRST COURSE IN NUMERICAL ANALYSIS IN COLLEGE IT PRESENTS THE METHODS IN A SYSTEMATIC MANNER A COMPUTER PROGRAM FOR EACH METHOD A SAMPLE PROBLEM FOR EACH PROGRAM THE SOURCE LINES OF EACH PROGRAM IN BASIC ALL PROGRAMS ARE STORED ON A FLOPPY DISC WHICH COMES WITH THE BOOK YOU WILL BE ABLE TO SOLVE MANY OF YOUR OWN PROBLEMS BY JUST CHANGING A FEW LINES OF THE PROGRAMS THE ANALYTICAL FORMULAS ARE DERIVED IN THE SIMPLEST POSSIBLE MANNER UTMOST CLARITY IN PRESENTATION HAS BEEN A MAJOR GOAL WHILE WRITING THIS BOOK THREE PROFESSORS OF MATHEMATICS WHO REVIEWED THE BOOK HAVE THE FOLLOWING COMMENTS VERY READABLE VERY PRACTICAL VERY COMPUTER ORIENTED THE AUTHOR RECEIVED HIS PH D IN MECHANICS IN 1970 FROM ILLINOIS INSTITUTE OF TECHNOLOGY CHICAGO ILL HE HAS TAUGHT MATHEMATICS ENGINEERING COURSES AT VARIOUS UNIVERSITIES HE HAS MORE THAN 20 YEARS TO HIS CREDIT IN APPLYING NUMERICAL METHODS TO ENGINEERING PROBLEMS

Numerical Methods for Scientists and Engineers

2010

Numerical Analysis, 1/e

1986

Numerical Analysis

1994-02-21

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2018-04-30

Numerical Methods in Science and Engineering

2016-06-30

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2005

Fundamentals of Numerical Methods

2017

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2014

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