

ELECTRONICS AND COMPUTER MATH 8TH EDITION

ELECTRONICS AND COMPUTER MATH 8TH EDITION ELECTRONICS AND COMPUTER MATH 8TH EDITION ELECTRONICS AND COMPUTER MATH 8TH EDITION IS A COMPREHENSIVE AND ENGAGING TEXTBOOK DESIGNED TO EQUIP STUDENTS WITH THE ESSENTIAL MATHEMATICAL SKILLS REQUIRED FOR SUCCESS IN ELECTRONICS AND COMPUTER SCIENCE THIS UPDATED EDITION SEAMLESSLY BLENDS THEORETICAL CONCEPTS WITH PRACTICAL APPLICATIONS FOSTERING A DEEP UNDERSTANDING OF THE MATHEMATICAL PRINCIPLES THAT UNDERPIN THESE FIELDS ELECTRONICS COMPUTER SCIENCE MATH ALGEBRA TRIGONOMETRY CALCULUS LOGIC CIRCUITS DIGITAL SYSTEMS PROBLEM SOLVING APPLICATIONS TECHNOLOGY ENGINEERING STEM THIS EIGHTH EDITION PROVIDES A COMPREHENSIVE AND ACCESSIBLE JOURNEY INTO THE WORLD OF ELECTRONICS AND COMPUTER MATH IT COVERS A WIDE RANGE OF TOPICS INCLUDING FUNDAMENTAL ALGEBRA A THOROUGH REVIEW OF BASIC ALGEBRAIC CONCEPTS INCLUDING EQUATIONS INEQUALITIES AND FUNCTIONS LAYING THE GROUNDWORK FOR MORE COMPLEX APPLICATIONS TRIGONOMETRY EXPLORATION OF TRIGONOMETRIC FUNCTIONS THEIR GRAPHS AND APPLICATIONS IN ANALYZING AC CIRCUITS AND WAVEFORMS CALCULUS TO KEY CALCULUS CONCEPTS LIKE DERIVATIVES AND INTEGRALS DEMONSTRATING THEIR SIGNIFICANCE IN UNDERSTANDING ELECTRICAL AND DIGITAL SYSTEMS BOOLEAN ALGEBRA AND LOGIC DEEP DIVE INTO THE LOGIC GATES AND OPERATIONS THAT FORM THE FOUNDATION OF DIGITAL CIRCUITS AND COMPUTER PROGRAMMING CIRCUIT ANALYSIS APPLICATION OF MATHEMATICAL TOOLS TO ANALYZE SERIES AND PARALLEL CIRCUITS INCLUDING KIRCHHOFFS LAWS AND OHMS LAW DIGITAL SYSTEMS UNDERSTANDING BINARY NUMBERS LOGIC GATES AND THE WORKINGS OF FUNDAMENTAL DIGITAL COMPONENTS LIKE FLIPFLOPS AND COUNTERS PROBLEM SOLVING AND APPLICATIONS NUMEROUS EXAMPLES AND REALWORLD SCENARIOS ILLUSTRATE THE PRACTICAL APPLICATIONS OF MATHEMATICAL CONCEPTS WITHIN ELECTRONICS AND COMPUTER SCIENCE THE BOOK IS METICULOUSLY STRUCTURED FOR EASE OF LEARNING EMPLOYING CLEAR EXPLANATIONS ILLUSTRATIVE DIAGRAMS AND NUMEROUS PRACTICE PROBLEMS TO SOLIDIFY UNDERSTANDING ITS ENGAGING STYLE AND COMPREHENSIVE COVERAGE MAKE IT AN IDEAL RESOURCE FOR STUDENTS PROFESSIONALS AND ANYONE SEEKING A FIRM GRASP OF THE MATHEMATICAL FOUNDATIONS OF ELECTRONICS AND COMPUTER TECHNOLOGY 2 THOUGHTPROVOKING CONCLUSION AS TECHNOLOGY CONTINUES TO ADVANCE AT AN UNPRECEDENTED RATE THE NEED FOR A STRONG FOUNDATION IN MATHEMATICS BECOMES EVER MORE CRUCIAL ELECTRONICS AND COMPUTER MATH 8TH EDITION EQUIPS READERS WITH THE ESSENTIAL TOOLS TO NAVIGATE THE COMPLEXITIES OF THIS EVER EVOLVING TECHNOLOGICAL LANDSCAPE BY MASTERING THE MATHEMATICAL CONCEPTS PRESENTED IN THIS BOOK INDIVIDUALS CAN UNLOCK A WORLD OF POSSIBILITIES CONTRIBUTING TO INNOVATION AND SHAPING THE FUTURE OF TECHNOLOGY THIS BOOK IS NOT MERELY A COLLECTION OF FORMULAS AND EQUATIONS IT IS A GATEWAY TO A DEEPER UNDERSTANDING OF THE INTERCONNECTEDNESS BETWEEN MATHEMATICS TECHNOLOGY AND THE WORLD AROUND US THROUGH ITS COMPREHENSIVE APPROACH AND ENGAGING STYLE IT ENCOURAGES READERS TO EMBRACE THE POWER OF MATHEMATICAL REASONING EMPOWERING THEM TO BECOME ACTIVE PARTICIPANTS IN THE ONGOING EVOLUTION OF THE DIGITAL AGE FREQUENTLY ASKED QUESTIONS FAQs 1 WHAT IS THE TARGET AUDIENCE FOR THIS BOOK ELECTRONICS AND COMPUTER MATH 8TH EDITION IS SUITABLE FOR A WIDE RANGE OF AUDIENCES INCLUDING STUDENTS IN HIGH SCHOOL OR COLLEGE PURSUING ELECTRONICS COMPUTER SCIENCE OR ENGINEERING COURSES PROFESSIONALS LOOKING TO REFRESH THEIR MATH SKILLS FOR CAREER ADVANCEMENT OR PERSONAL DEVELOPMENT INDIVIDUALS WITH AN INTEREST IN ELECTRONICS AND COMPUTERS WHO WANT TO GAIN A DEEPER UNDERSTANDING OF THE MATHEMATICAL PRINCIPLES UNDERLYING THESE FIELDS 2 WHAT ARE THE PREREQUISITES FOR USING THIS BOOK THE BOOK ASSUMES A BASIC UNDERSTANDING OF HIGH SCHOOL ALGEBRA HOWEVER IT PROVIDES THOROUGH EXPLANATIONS AND EXAMPLES MAKING IT ACCESSIBLE

EVEN TO READERS WITH LIMITED PRIOR MATHEMATICAL EXPERIENCE 3 HOW DOES THIS BOOK DIFFER FROM OTHER TEXTBOOKS IN THE FIELD ELECTRONICS AND COMPUTER MATH 8TH EDITION STANDS OUT WITH ITS COMPREHENSIVE COVERAGE ENGAGING STYLE AND FOCUS ON PRACTICAL APPLICATIONS IT SEAMLESSLY INTEGRATES MATHEMATICAL CONCEPTS WITH REALWORLD EXAMPLES MAKING THE LEARNING PROCESS BOTH RELEVANT AND ENJOYABLE 4 WHAT ARE SOME OF THE KEY FEATURES OF THIS EDITION 3 THIS LATEST EDITION FEATURES UPDATED CONTENT REFLECTING ADVANCEMENTS IN TECHNOLOGY AND INDUSTRY PRACTICES ENHANCED ILLUSTRATIONS AND DIAGRAMS FOR CLEARER VISUALIZATION OF CONCEPTS ADDITIONAL PRACTICE PROBLEMS AND EXERCISES TO SOLIDIFY UNDERSTANDING A DEDICATED SECTION ON PROBLEMSOLVING TECHNIQUES AND STRATEGIES ONLINE RESOURCES INCLUDING SUPPLEMENTARY MATERIALS SOLUTIONS AND INTERACTIVE TOOLS 5 WILL THIS BOOK HELP ME DEVELOP MY PROBLEMSOLVING SKILLS IN ELECTRONICS AND COMPUTER SCIENCE ABSOLUTELY ELECTRONICS AND COMPUTER MATH 8TH EDITION EMPHASIZES A PROBLEMSOLVING APPROACH THROUGHOUT IT PROVIDES A FRAMEWORK FOR TACKLING REALWORLD CHALLENGES IN ELECTRONICS AND COMPUTER SCIENCE BY APPLYING THE LEARNED MATHEMATICAL CONCEPTS THROUGH NUMEROUS EXAMPLES AND EXERCISES READERS GAIN CONFIDENCE IN APPLYING THEIR KNOWLEDGE TO SOLVE PRACTICAL PROBLEMS THIS NOT ONLY STRENGTHENS THEIR UNDERSTANDING OF THE SUBJECT MATTER BUT ALSO EQUIPS THEM WITH THE SKILLS NECESSARY TO EXCEL IN THIS RAPIDLY EVOLVING TECHNOLOGICAL LANDSCAPE

COMPUTER MATHEMATICS FOR PROGRAMMERS COMPUTER MATHEMATICS SETS, NUMBERS AND FLOWCHARTS INTRODUCTION TO LOGIC COMPUTER NUMBER BASES BOOLEAN ALGEBRA AND SWITCHING CIRCUITS CONCISE COMPUTER MATHEMATICS COMPUTER MATHEMATICS LEARNING FROM COMPUTERS: MATHEMATICS EDUCATION AND TECHNOLOGY COMPUTER MATHEMATICS COMPUTER MATHEMATICS INTELLIGENT COMPUTER MATHEMATICS COMPUTER MATH MATHEMATICS AND COMPUTERS MATHEMATICAL AESTHETIC PRINCIPLES/NONINTEGRABLE SYSTEMS COMPUTER MATHEMATICS ELECTRONICS AND COMPUTER MATH MATHEMATICS AND COMPUTER SCIENCE, VOLUME 4 MATHEMATICS AND COMPUTER SCIENCE SETS, LOGIC AND MATHS FOR COMPUTING ADVANCED MATHEMATICS IN COMPUTING, COMMUNICATION AND SECURITY INTRODUCTION TO COMPUTER MATHEMATICS MATHS FOR COMPUTING MATHEMATICS FOR COMPUTER GRAPHICS APPLICATIONS DARRELL H. ABNEY WILLIAM PARKS OVIDIU BAGDASAR D. J. COOKE CHRISTINE KEITEL-KREIDT RUYONG FENG XIAO-SHAN GAO JACQUES CARETTE CHARLES MARCHANT REEDER GEORGE ROBERT STIBITZ MURRAY MURASKIN GORDON BUICK BILL R. DEEM BISWADIP BASU MALLIK DANI LE GARDY DAVID MAKINSON DIPTI JADHAV RUSSELL MERRIS QUENTIN CHARATAN MICHAEL E. MORTENSON

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COMPUTER MATHEMATICS FOR PROGRAMMERS PRESENTS THE MATHEMATICS THAT IS ESSENTIAL TO THE COMPUTER PROGRAMMER THE BOOK IS COMPRISED OF 10 CHAPTERS THE FIRST CHAPTER INTRODUCES SEVERAL COMPUTER NUMBER SYSTEMS CHAPTER 2 SHOWS HOW TO PERFORM ARITHMETIC OPERATIONS USING THE NUMBER SYSTEMS INTRODUCED IN CHAPTER 1 THE THIRD CHAPTER COVERS THE WAY NUMBERS ARE STORED IN COMPUTERS HOW THE COMPUTER PERFORMS

ARITHMETIC ON REAL NUMBERS AND INTEGERS AND HOW ROUND OFF ERRORS ARE GENERATED IN COMPUTER PROGRAMS CHAPTER 4 DETAILS THE USE OF ALGORITHMS AND FLOWCHARTING AS PROBLEM SOLVING TOOLS FOR COMPUTER PROGRAMMING SUBSEQUENT CHAPTERS FOCUSES ON SPECIFIC MATHEMATICAL TOPICS SUCH AS ALGEBRA SETS LOGIC BOOLEAN ALGEBRA MATRICES GRAPHING AND LINEAR PROGRAMMING AND STATISTICS STUDENTS OF COMPUTER PROGRAMMING WILL FIND THE TEXT VERY USEFUL

THE TEXT UTILIZES A MODIFIED FORM OF PROGRAMMED INSTRUCTION PI IN ALL THE PRESENTATIONS OF VARIOUS TOPICS RELATED TO COMPUTER MATHEMATICS RELEVANT INFORMATION IS PRESENTED IN EACH FRAME BEFORE ADVANCING TO THE NEXT FRAME EXERCISES ARE LISTED AFTER SEVERAL FRAMES FOLLOWED BY ANSWER KEYS MATERIAL IN THIS COMPUTER MATH SERIES WAS SUBMITTED FOR REVIEW IN THE MATHEMATICS TEACHER AND RECEIVED PRAISE THE DEVELOPMENT IS WELL DONE

ADAPTED FROM A MODULAR UNDERGRADUATE COURSE ON COMPUTATIONAL MATHEMATICS CONCISE COMPUTER MATHEMATICS DELIVERS AN EASILY ACCESSIBLE SELF CONTAINED INTRODUCTION TO THE BASIC NOTIONS OF MATHEMATICS NECESSARY FOR A COMPUTER SCIENCE DEGREE THE TEXT REFLECTS THE NEED TO QUICKLY INTRODUCE STUDENTS FROM A VARIETY OF EDUCATIONAL BACKGROUNDS TO A NUMBER OF ESSENTIAL MATHEMATICAL CONCEPTS THE MATERIAL IS DIVIDED INTO FOUR UNITS DISCRETE MATHEMATICS SETS RELATIONS FUNCTIONS LOGIC BOOLEAN TYPES TRUTH TABLES PROOFS LINEAR ALGEBRA VECTORS MATRICES AND GRAPHICS AND SPECIAL TOPICS GRAPH THEORY NUMBER THEORY BASIC ELEMENTS OF CALCULUS THE CHAPTERS CONTAIN A BRIEF THEORETICAL PRESENTATION OF THE TOPIC FOLLOWED BY A SELECTION OF PROBLEMS WHICH ARE DIRECT APPLICATIONS OF THE THEORY AND ADDITIONAL SUPPLEMENTARY PROBLEMS WHICH MAY REQUIRE A BIT MORE WORK EACH CHAPTER ENDS WITH ANSWERS OR WORKED SOLUTIONS FOR ALL OF THE PROBLEMS

COMPUTING IS AN EXACT SCIENCE AND THE SYSTEMATIC STUDY OF ANY ASPECT NECESSARILY INVOLVES THE USE OF MATHEMATICAL MODELS MOREOVER THE RATE AT WHICH THE SUBJECT IS EVOLVING DEMANDS A FACILITY FOR DEVELOPING NEW MATHEMATICAL SYSTEMS TO KEEP PACE WITH NEW COMPUTING SYSTEMS AND THIS REQUIRES AN APPRECIATION OF HOW MATHEMATICS WORKS AN UNDERSTANDING OF THE UNDERLYING MATHEMATICAL STRUCTURE FACILITATES THE CONSTRUCTION OF SUITABLE COMPUTER PROGRAMS TO PERFORM COMPUTATIONS ASSUMING NO SPECIFIC KNOWLEDGE OF MATHEMATICS THE AUTHORS DESCRIBE ALL THE BASIC CONCEPTS REQUIRED AND PROGRESS FROM SETS RATHER THAN NUMBERS THROUGH A VARIETY OF ALGEBRAIC STRUCTURES THAT PERMIT THE PRECISE DESCRIPTION SPECIFICATION AND SUBSEQUENT ANALYSIS OF MANY PROBLEMS IN COMPUTING THE MATERIAL INCLUDED PROVIDES THE ESSENTIAL MATHEMATICAL FOUNDATIONS FOR CORE TOPICS OF COMPUTER SCIENCE AND EXTENDS INTO THE AREAS OF LANGUAGE THEORY ABSTRACT MACHINE THEORY AND COMPUTER GEOMETRY COMPUTER MATHEMATICS WILL BE OF INTEREST TO UNDERGRADUATE STUDENTS OF COMPUTER SCIENCE AND MATHEMATICS POST GRADUATE COMPUTING CONVERSION COURSE STUDENTS AND COMPUTER PROFESSIONALS WHO NEED AN INTRODUCTION TO THE MATHEMATICS THAT UNDERPINS COMPUTER SCIENCE THEORY

THE NATO ADVANCED RESEARCH WORKSHOP ON MATHEMATICS EDUCATION AND TECHNOLOGY WAS HELD IN VILLARD DE LANS FRANCE BETWEEN MAY 6 AND 11 1993 ORGANISED ON THE INITIATIVE OF THE BACOMET BASIC COMPONENTS OF MATHEMATICS EDUCATION FOR TEACHERS GROUP CHRISTIANSEN HOWSON AND OTTE 1986 BISHOP MELLIN OLSEN AND VAN DORMOLEN 1991 THE WORKSHOP FORMED PART OF A LARGER NATO PROGRAMME ON ADVANCED EDUCATIONAL TECHNOLOGY SOME WORKSHOP MEMBERS HAD ALREADY PARTICIPATED IN EARLIER EVENTS IN THIS SERIES AND WERE ABLE TO CONTRIBUTE INSIGHTS FROM THEM SIMILARLY SOME MEMBERS WERE TO TAKE PART IN LATER EVENTS THE PROBLEMATIC FOR THE WORKSHOP DREW ATTENTION TO IMPORTANT SPECULATIVE

DEVELOPMENTS IN THE APPLICATIONS OF ADVANCED INFORMATION TECHNOLOGY IN MATHEMATICS EDUCATION OVER THE LAST DECADE NOTABLY INTELLIGENT TUTORING GEOMETRIC CONSTRUCTION SYMBOLIC ALGEBRA AND STATISTICAL ANALYSIS OVER THE SAME PERIOD MORE ELEMENTARY FORMS OF INFORMATION TECHNOLOGY HAD STARTED TO HAVE A SIGNIFICANT INFLUENCE ON TEACHING APPROACHES AND CURRICULUM CONTENT NOTABLY ARITHMETIC AND GRAPHIC CALCULATORS STANDARD COMPUTER TOOLS SUCH AS SPREADSHEETS AND DATABASES AND COMPUTER ASSISTED LEARNING PACKAGES AND COMPUTER MICROWORLDS SPECIALLY DESIGNED FOR EDUCATIONAL PURPOSES

THIS BOOK COVERS ORIGINAL RESEARCH AND THE LATEST ADVANCES IN SYMBOLIC ALGEBRAIC AND GEOMETRIC COMPUTATION COMPUTATIONAL METHODS FOR DIFFERENTIAL AND DIFFERENCE EQUATIONS SYMBOLIC NUMERICAL COMPUTATION MATHEMATICS SOFTWARE DESIGN AND IMPLEMENTATION AND SCIENTIFIC AND ENGINEERING APPLICATIONS BASED ON FEATURES INVITED TALKS SPECIAL SESSIONS AND CONTRIBUTED PAPERS PRESENTED AT THE 9TH IN FUKUOKA JAPAN IN 2009 AND 10TH IN BEIJING CHINA IN 2012 ASIAN SYMPOSIUM ON COMPUTER MATHEMATICS ASCM THIRTY SELECTED AND REFEREED ARTICLES IN THE BOOK PRESENT THE CONFERENCE PARTICIPANTS IDEAS AND VIEWS ON RESEARCHING MATHEMATICS USING COMPUTERS

THIS VOLUME CONTAINS SELECTED PAPERS PRESENTED AT THE FOURTH ASIAN SYMPOSIUM ON COMPUTER MATHEMATICS 39 PEER REVIEWED ORIGINAL CONTRIBUTIONS TOGETHER WITH FULL PAPERS AND EXTENDED ABSTRACTS BY THE FOUR INVITED SPEAKERS G H GONNET D LAZARD W MCCUNE AND W T WU COVER SOME OF THE MOST RECENT AND SIGNIFICANT ADVANCES IN COMPUTER MATHEMATICS INCLUDING ALGEBRAIC SYMBOLIC NUMERIC AND GEOMETRIC COMPUTATION AUTOMATED MATHEMATICAL REASONING MATHEMATICAL SOFTWARE AND COMPUTER AIDED GEOMETRIC DESIGN RESEARCHERS TEACHERS STUDENTS AND ENGINEERS INTERESTED IN DOING MATHEMATICS USING COMPUTERS WILL FIND THIS VOLUME GOOD READING AND A VALUABLE REFERENCE

AS COMPUTERS AND COMMUNICATIONS TECHNOLOGY ADVANCE GREATER OPPORTUNITIES ARISE FOR INTELLIGENT MATHEMATICAL COMPUTATION WHILE COMPUTER ALGEBRA AUTOMATED DEDUCTION AND MATHEMATICAL PUBLISHING EACH HAVE LONG AND SUCCESSFUL HISTORIES WE ARE NOW SEEING INCREASING OPPORTUNITIES FOR SYNERGY AMONG THEM THE CONFERENCES ON INTELLIGENT COMPUTER MATHEMATICS CICM 2009 IS A COLLECTION OF CO LOCATED MEETINGS ALLOWING RESEARCHERS AND PRACTITIONERS ACTIVE IN THESE RELATED AREAS TO SHARE RECENT RESULTS AND IDENTIFY THE NEXT CHALLENGES THE SPECIFIC AREAS OF THE CICM CONFERENCES AND WORKSHOPS ARE DESCRIBED BELOW BUT THE UNIFYING THEME IS THE COMPUTERIZED HANDLING OF MATHEMATICAL KNOWLEDGE THE SUCCESSFUL FORMALIZATION OF MUCH OF MATHEMATICS AS WELL AS A BETTER UNDERSTANDING OF ITS INTERNAL STRUCTURE MAKES MATHEMATICAL KNOWLEDGE IN MANY WAYS MORE TRACTABLE THAN GENERAL KNOWLEDGE AS TRADITIONALLY TREATED IN ARTIFICIAL INTELLIGENCE SIMILARLY WE CAN ALSO EXPECT THE PROBLEM OF EFFECTIVELY USING MATHEMATICAL KNOWLEDGE IN AUTOMATED WAYS TO BE MUCH MORE TRACTABLE THIS IS THE GOAL OF THE WORK IN THE CICM CONFERENCES AND WORKSHOPS IN THE LONG VIEW SOLVING THE PROBLEMS ADDRESSED BY CICM IS AN IMPORTANT MILESTONE IN FORMULATING THE NEXT GENERATION OF MATHEMATICAL SOFTWARE

ATTEMPTS TO PROVIDE THE LAYMAN WITH AN UNDERSTANDING OF THE BASIC CONCEPTS OF APPLIED MATHEMATICS WITH SPECIAL EMPHASIS ON AUTOMATIC DIGITAL COMPUTERS

MATHEMATICAL AESTHETICS IS NOT DISCUSSED AS A SEPARATE DISCIPLINE IN OTHER BOOKS THAN THIS EVEN THOUGH IT IS REASONABLE TO SUPPOSE THAT THE FOUNDATIONS OF PHYSICS LIE IN MATHEMATICAL AESTHETICS THIS BOOK PRESENTS A LIST OF MATHEMATICAL PRINCIPLES THAT CAN BE CLASSIFIED AS AESTHETIC

AND SHOWS THAT THESE PRINCIPLES CAN BE CAST INTO A NONLINEAR SET OF EQUATIONS THEN WITH THIS MINIMAL INPUT THE BOOK SHOWS THAT ONE CAN OBTAIN LATTICE SOLUTIONS SOLITON SYSTEMS CLOSED STRINGS INSTANTONS AND CHAOTIC LOOKING SYSTEMS AS WELL AS MULTI WAVE PACKET SOLUTIONS AS OUTPUT THESE SOLUTIONS HAVE THE COMMON FEATURE OF BEING NONINTEGRABLE I E THE RESULTS OF INTEGRATION DEPEND ON THE INTEGRATION PATH THE TOPIC OF NONINTEGRABLE SYSTEMS HAS NOT BEEN GIVEN MUCH ATTENTION IN OTHER BOOKS HENCE WE DISCUSS TECHNIQUES FOR DEALING WITH SUCH SYSTEMS

MATHEMATICS AND COMPUTER SCIENCE FOR REAL WORLD APPLICATIONS GIVES INVALUABLE INSIGHTS INTO HOW MATHEMATICAL AND COMPUTER SCIENCES DRIVE ESSENTIAL MODERN INNOVATIONS THAT ENHANCE EVERYDAY LIFE MAKING IT A MUST READ FOR ANYONE INTERESTED IN THE INTERSECTION OF MATHEMATICS AND TECHNOLOGY AND THEIR REAL WORLD APPLICATIONS MATHEMATICAL SCIENCES ARE PART OF NEARLY ALL ASPECTS OF EVERYDAY LIFE THE DISCIPLINE HAS UNDERPINNED BENEFICIAL MODERN CAPABILITIES INCLUDING INTERNET SEARCHES MEDICAL IMAGING COMPUTER ANIMATION NUMERICAL WEATHER PREDICTIONS AND DIGITAL COMMUNICATION MATHEMATICS AND COMPUTER SCIENCE ARE CONSTANTLY EVOLVING AND CONTRIBUTING TO MOST AREAS OF SCIENCE AND ENGINEERING THEREFORE FUTURE GENERATIONS OF MATHEMATICAL SCIENTISTS SHOULD REASSESS THE INCREASINGLY CROSS DISCIPLINARY NATURE OF THE MATHEMATICAL SCIENCES MATHEMATICS AND COMPUTER SCIENCE FOR REAL WORLD APPLICATIONS PRESENTS CURRENT SCIENTIFIC AND TECHNOLOGICAL INNOVATIONS FROM LEADING ACADEMICS RESEARCHERS AND EXPERTS ACROSS THE GLOBE IN MATHEMATICAL SCIENCES AND COMPUTING THE VOLUME WILL DISCUSS NEW TECHNICAL IDEAS AND FEATURES THAT CAN BE INCORPORATED INTO DAY TO DAY LIFE FOR THE BENEFIT OF SOCIETY A DIVERSIFIED SPECTRUM OF SCIENTIFIC ADVANCEMENTS IS DISCUSSED INCLUDING APPLICATIONS OF DIFFERENTIAL AND INTEGRAL EQUATIONS COMPUTATIONAL FLUID DYNAMICS NANOFLUIDS NETWORK THEORY AND OPTIMIZATION CONTROL THEORY MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE READERS WILL EXPLORE DIVERSE IDEAS AND INNOVATIONS IN THE FIELD OF COMPUTING AND ITS GROWING CONNECTIONS TO VARIOUS FIELDS OF MATHEMATICS

THIS IS THE FIRST BOOK WHERE MATHEMATICS AND COMPUTER SCIENCE ARE DIRECTLY CONFRONTED AND JOINED TO TACKLE INTRICATE PROBLEMS IN COMPUTER SCIENCE WITH DEEP MATHEMATICAL APPROACHES IT CONTAINS A COLLECTION OF REFEREED PAPERS PRESENTED AT THE COLLOQUIUM ON MATHEMATICS AND COMPUTER SCIENCE HELD AT THE UNIVERSITY OF VERSAILLES ST QUENTIN ON SEPTEMBER 18 20 2000 THE COLLOQUIUM WAS A MEETING PLACE FOR RESEARCHERS IN MATHEMATICS AND COMPUTER SCIENCE AND THUS AN IMPORTANT OPPORTUNITY TO EXCHANGE IDEAS AND POINTS OF VIEW AND TO PRESENT NEW APPROACHES AND NEW RESULTS IN THE COMMON AREAS SUCH AS ALGORITHMS ANALYSIS TREES COMBINATORICS OPTIMIZATION PERFORMANCE EVALUATION AND PROBABILITIES THE BOOK IS INTENDED FOR A LARGE PUBLIC IN APPLIED MATHEMATICS DISCRETE MATHEMATICS AND COMPUTER SCIENCE INCLUDING RESEARCHERS TEACHERS GRADUATE STUDENTS AND ENGINEERS IT PROVIDES AN OVERVIEW OF THE CURRENT QUESTIONS IN COMPUTER SCIENCE AND RELATED MODERN MATHEMATICAL METHODS THE RANGE OF APPLICATIONS IS VERY WIDE AND REACHES BEYOND COMPUTER SCIENCE

THIS EASY TO FOLLOW TEXTBOOK INTRODUCES THE MATHEMATICAL LANGUAGE KNOWLEDGE AND PROBLEM SOLVING SKILLS THAT UNDERGRADUATES NEED TO STUDY COMPUTING THE LANGUAGE IS IN PART QUALITATIVE WITH CONCEPTS SUCH AS SET RELATION FUNCTION AND RECURSION INDUCTION BUT IT IS ALSO PARTLY QUANTITATIVE WITH PRINCIPLES OF COUNTING AND FINITE PROBABILITY ENTWINED WITH BOTH ARE THE FUNDAMENTAL NOTIONS OF LOGIC AND THEIR USE FOR REPRESENTATION AND PROOF FEATURES TEACHES FINITE MATH AS A LANGUAGE FOR THINKING AS MUCH AS KNOWLEDGE AND SKILLS TO BE ACQUIRED USES AN INTUITIVE APPROACH WITH A FOCUS ON EXAMPLES FOR ALL GENERAL CONCEPTS BRINGS OUT THE INTERPLAY BETWEEN THE QUALITATIVE AND THE QUANTITATIVE IN ALL AREAS COVERED PARTICULARLY IN THE TREATMENT OF RECURSION AND INDUCTION BALANCES CAREFULLY THE ABSTRACT AND CONCRETE PRINCIPLES AND PROOFS SPECIFIC FACTS AND GENERAL PERSPECTIVES INCLUDES HIGHLIGHT BOXES THAT RAISE COMMON QUERIES AND CLEAR CONFUSIONS PROVIDES NUMEROUS

EXERCISES WITH SELECTED SOLUTIONS

EXPLORE THE CUTTING EDGE OF SCIENTIFIC COMPUTING WITH THIS VOLUME WHICH PROVIDES A COMPREHENSIVE LOOK AT THE INTERDEPENDENCY BETWEEN MATHEMATICS AND COMPUTER SCIENCE WITHIN THE EVOLVING LANDSCAPE OF COMPUTER SCIENCE MATHEMATICS IS INCREASINGLY PLAYING A PIVOTAL ROLE DISCIPLINES LIKE LINEAR ALGEBRA STATISTICS CALCULUS AND DISCRETE MATHEMATICS SERVE AS THE CORNERSTONE FOR COMPREHENSION AND INNOVATION WITHIN VARIOUS COMPUTER SCIENCE DOMAINS THIS BOOK UNDERSCORES THE DEEP SEATED INTERDEPENDENCY BETWEEN THE REALMS OF MATHEMATICS AND SCIENTIFIC COMPUTING EXPLORING HOW EACH DISCIPLINE MUTUALLY REINFORCES AND ADVANCES THE OTHER WITH ITS RICH THEORETICAL FRAMEWORK AND ANALYTICAL RIGOR MATHEMATICS PROVIDES THE BEDROCK UPON WHICH MANY COMPUTATIONAL CONCEPTS AND METHODOLOGIES ARE BUILT IN TURN COMPUTER SCIENCE OFFERS A PRACTICAL AVENUE FOR APPLYING MATHEMATICAL ABSTRACTIONS TO TACKLE REAL WORLD PROBLEMS EFFICIENTLY AND EFFECTIVELY CUTTING EDGE TECHNOLOGIES SUCH AS SCIENTIFIC COMPUTING DEEP LEARNING AND COMPUTER VISION REQUIRE NOT ONLY A MASTERY OF FOUNDATIONAL MATHEMATICS BUT A DIVERSE INTERDISCIPLINARY APPROACH THIS BOOK SHEDS LIGHT ON THE BURGEONING FRONTIERS OF COMPUTER SCIENCE BRINGING TOGETHER RESEARCHERS WITH EXPERTISE ACROSS MULTIPLE INDUSTRIES MAKING IT AN ESSENTIAL RESOURCE FOR BEGINNERS AND EXPERIENCED PRACTITIONERS ALIKE

THIS INTRODUCTORY TEXTBOOK COVERS ALL THE MATHEMATICAL CONCEPTS NECESSARY FOR A COMPUTING DEGREE LIMITING COVERAGE ONLY TO THE MATERIAL NEEDED FOR THE FUNDAMENTALS OF COMPUTING RATHER THAN DELVING INTO THE HIGHER MATHEMATICAL CONCEPTS KEY FEATURES INCLUDE GEARS CONTENT TOWARD STUDENTS WHO ARE LESS CONFIDENT IN MATHEMATICS PROVIDES EXERCISES WITH SOLUTIONS AT THE END OF EACH CHAPTER TEACHES TOPICS USING EVERYDAY LANGUAGE INCLUDES NUMEROUS WORKED EXAMPLES IN EVERY CHAPTER USES FAMILIAR SCENARIOS TO INTRODUCE MATHEMATICAL CONCEPTS DISCUSSES THE RELEVANCE OF EACH CHAPTER TOPIC TO THE WORLD OF COMPUTING CORE TOPICS COVERED INCLUDE SET AND GROUPS MATRICES RELATIONS AND FUNCTIONS LOGIC AND PROOFS COMBINATORICS PROBABILITY GRAPH THEORY THE BOOK IS WRITTEN FOR STUDENTS EMBARKING ON AN UNDERGRADUATE OR FOUNDATION DEGREE COURSE IN COMPUTER SCIENCE OR RELATED DISCIPLINE AND AIMS TO PROVIDE THE BASIC SKILLS AND KNOWLEDGE OF DISCRETE MATHEMATICS REQUIRED FOR SUCH A COURSE WHEREAS MANY TEXTBOOKS TEND TO TEACH THIS SUBJECT IN A WAY THAT IS MORE SUITABLE FOR MATHEMATICIANS THIS TEXT SPECIFICALLY TARGETS FIRST YEAR STUDENTS ON COMPUTING COURSES AND AIMS TO TEACH ONLY THE BASIC MATERIAL THAT THEY WILL NEED FOR THEIR COMPUTING DEGREE DR QUENTIN CHARATAN IS A FORMER PRINCIPAL LECTURER AND NOW VISITING LECTURER AT THE UNIVERSITY OF EAST LONDON UK DR AARON KANS IS THE HEAD OF THE COMPUTER SCIENCE AND DIGITAL TECHNOLOGIES DEPARTMENT IN THE SCHOOL OF ARCHITECTURE COMPUTING ENGINEERING AT THE SAME INSTITUTION

MATHEMATICS FOR COMPUTER GRAPHICS APPLICATIONS IS WRITTEN FOR SEVERAL AUDIENCES FOR COLLEGE STUDENTS MAJORING IN COMPUTER SCIENCE ENGINEERING OR APPLIED MATHEMATICS AND SCIENCE WHOSE SPECIAL INTERESTS ARE IN COMPUTER GRAPHICS CAD CAM GEOMETRIC MODELING VISUALIZATION OR RELATED SUBJECTS FOR INDUSTRY AND GOVERNMENT ON THE JOB TRAINING OF EMPLOYEES WHOSE SKILLS CAN BE PROFITABLY EXPANDED INTO THESE AREAS AND FOR THE PROFESSIONAL WORKING IN THESE FIELDS IN NEED OF A COMPREHENSIVE REFERENCE AND SKILLS REFRESHER BOOK JACKET

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