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CHEMICAL REACTIONS AND THEIR EQUATIONS LOW-ORDER CLASSICAL RUNGE-KUTTA FORMULAS WITH STEPSIZE CONTROL AND THEIR APPLICATION TO SOME HEAT TRANSFER PROBLEMS CHEMICAL REACTIONS AND THEIR EQUATIONS HYPERSINGULAR INTEGRAL EQUATIONS AND THEIR APPLICATIONS INVERSE SCATTERING PROBLEMS AND THEIR APPLICATION TO NONLINEAR INTEGRABLE EQUATIONS ABSTRACT PARABOLIC EVOLUTION EQUATIONS AND THEIR APPLICATIONS FORMS OF FERMAT EQUATIONS AND THEIR ZETA FUNCTIONS DIFFERENCE EQUATIONS AND THEIR APPLICATIONS SYSTEMS OF QUASILINEAR EQUATIONS AND THEIR APPLICATIONS TO GAS DYNAMICS CLASSIFICATION AND EXAMPLES OF DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS COEFFICIENT INVERSE PROBLEMS FOR PARABOLIC TYPE EQUATIONS AND THEIR APPLICATION DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS NONLINEAR DIFFUSION EQUATIONS AND THEIR EQUILIBRIUM STATES. 3 EVOLUTION EQUATIONS AND THEIR APPLICATIONS IN PHYSICAL AND LIFE SCIENCES EINSTEIN'S FIELD EQUATIONS AND THEIR PHYSICAL IMPLICATIONS DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS INTEGRAL EQUATIONS AND THEIR APPLICATIONS DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS ANALYTIC EXTENSION FORMULAS AND THEIR APPLICATIONS FUZZY RELATION EQUATIONS AND THEIR APPLICATIONS TO KNOWLEDGE ENGINEERING CHARACTERISTIC EQUATIONS OF TUNGSTEN FILAMENT LAMPS AND THEIR APPLICATION IN HETEROCHROMATIC PHOTOMETRY REACTION-DIFFUSION EQUATIONS AND THEIR APPLICATIONS AND COMPUTATIONAL ASPECTS - PROCEEDINGS OF THE CHINA-IAPAN SYMPOSIUM MEASURE-VALUED SOLUTIONS FOR NONLINEAR EVOLUTION EQUATIONS ON BANACH SPACES AND THEIR OPTIMAL CONTROL SEMILINEAR EVOLUTION EQUATIONS AND THEIR APPLICATIONS ELEMENTARY COURSE IN LAGRANGE'S EQUATIONS AND THEIR APPLICATIONS OF PROBLEMS OF DYNAMICS NONNARCOTIC DRUGS FOR THE RELIEF OF PAIN AND THEIR MECHANISM OF ACTION MODELING VAPOR-LIQUID EQUILIBRIA TIME-DEPENDENT PARTIAL DIFFERENTIAL EQUATIONS AND THEIR NUMERICAL SOLUTION A TREATISE ON DIFFERENTIAL EQUATIONS THE THEORIES OF DARWIN AND THEIR RELATION TO PHILOSOPHY, RELIGION, AND MORALITY THE LITERARY USE OF FORMULAS IN GUTHLAC II AND THEIR RELATION TO FELIX'S VITA SANCTI GUTHLACI RANDOM ORDINARY DIFFERENTIAL EQUATIONS AND THEIR NUMERICAL SOLUTION AN ELEMENTARY TREATISE ON THE THEORY OF EQUATIONS THE DISEASES OF CHILDREN AND THEIR HOMEOPATHIC TREATMENT METHODS OF CANNING FRUITS AND VEGETABLES BY HOT AIR AND STEAM AMERICAN JOURNAL OF PHARMACY AND THE SCIENCES SUPPORTING PUBLIC HEALTH PARTIAL DIFFERENTIAL EQUATIONS OF FIRST ORDER AND THEIR APPLICATIONS TO PHYSICS (2ND EDITION) FRACTIONAL PARTIAL DIFFERENTIAL EQUATIONS AND THEIR NUMERICAL SOLUTIONS LECTURES ON FUNCTIONAL EQUATIONS AND THEIR APPLICATIONS REPORT

CHEMICAL REACTIONS AND THEIR EQUATIONS 1928

EXCERPT FROM CHEMICAL REACTIONS AND THEIR EQUATIONS A GUIDE FOR STUDENTS OF CHEMISTRY VALENCY AND VALENCE NUMBERS OXIDATION AND REDUCTION NOMENCLATURE AND TERMINOLOGY OF COMPOUNDS SUMMARY OF INFORMATION CONTAINED IN A FORMULA ABOUT THE PUBLISHER FORGOTTEN BOOKS PUBLISHES HUNDREDS OF THOUSANDS OF RARE AND CLASSIC BOOKS FIND MORE AT FORGOTTENBOOKS COM THIS BOOK IS A REPRODUCTION OF AN IMPORTANT HISTORICAL WORK FORGOTTEN BOOKS USES STATE OF THE ART TECHNOLOGY TO DIGITALLY RECONSTRUCT THE WORK PRESERVING THE ORIGINAL FORMAT WHILST REPAIRING IMPERFECTIONS PRESENT IN THE AGED COPY IN RARE CASES AN IMPERFECTION IN THE ORIGINAL SUCH AS A BLEMISH OR MISSING PAGE MAY BE REPLICATED IN OUR EDITION WE DO HOWEVER REPAIR THE VAST MAIORITY OF IMPERFECTIONS SUCCESSFULLY ANY IMPERFECTIONS THAT REMAIN ARE INTENTIONALLY LEFT TO PRESERVE THE STATE OF SUCH HISTORICAL WORKS

Low-order Classical Runge-Kutta Formulas with Stepsize Control and Their Application to Some Heat Transfer Problems 1969

A NUMBER OF NEW METHODS FOR SOLVING SINGULAR AND HYPERSINGULAR INTEGRAL EQUATIONS HAVE EMERGED IN RECENT YEARS THIS VOLUME PRESENTS SOME OF THESE NEW METHODS ALONG WITH CLASSICAL EXACT APPROXIMATE AND NUMERICAL METHODS THE AUTHORS EXPLORE THE ANALYSIS OF HYPERSINGULAR INTEGRAL EQUATIONS BASED ON THE THEORY OF PSEUDODIFFERENTIAL OPERATORS AND CO

CHEMICAL REACTIONS AND THEIR EQUATIONS 2017-09-12

INVERSE SCATTERING PROBLEMS AND THEIR APPLICATIONS TO NONLINEAR INTEGRABLE EQUATIONS SECOND EDITION IS DEVOTED TO INVERSE SCATTERING PROBLEMS ISPS FOR DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS TO NONLINEAR EVOLUTION EQUATIONS NIEES THE BOOK IS SUITABLE FOR ANYONE WHO HAS A MATHEMATICAL BACKGROUND AND INTEREST IN FUNCTIONAL ANALYSIS DIFFERENTIAL EQUATIONS AND EQUATIONS OF MATHEMATICAL PHYSICS IT HIS BOOK IS INTENDED FOR A WIDE COMMUNITY WORKING WITH ISPS AND THEIR APPLICATIONS THERE IS AN ESPECIALLY STRONG TRADITIONAL COMMUNITY IN MATHEMATICAL PHYSICS IN THIS MONOGRAPH THE PROBLEMS ARE PRESENTED STEP BY STEP AND DETAILED PROOFS ARE GIVEN FOR CONSIDERED PROBLEMS TO MAKE THE TOPICS MORE ACCESSIBLE FOR STUDENTS WHO ARE APPROACHING THEM FOR THE FIRST TIME NEW TO THE SECOND EDITION ALL NEW CHAPTER DEALING WITH THE BE CLUND TRANSFORMATIONS BETWEEN A COMMON SOLUTION OF BOTH LINEAR EQUATIONS IN THE LAX PAIR AND THE SOLUTION OF THE ASSOCIATED BY FOR NLEES ON THE HALF LINE UPDATED REFERENCES AND CONCLUDING REMARKS FEATURES SOLVING THE DIRECT AND ISP THEN SOLVING THE ASSOCIATED INITIAL VALUE PROBLEM IVP OR INITIAL BOUNDARY VALUE PROBLEM BY FOR NLEES ARE CARRIED OUT STEP BY STEP THE UNKNOWN BOUNDARY VALUES ARE CALCULATED WITH THE HELP OF THE LAX GENERALIZED EQUATIONS THEN THE TIME DEPENDENT SCATTERING DATA SD ARE EXPRESSED IN TERMS OF PREASSIGNED INITIAL AND BOUNDARY CONDITIONS THEREBY THE POTENTIAL FUNCTIONS ARE RECOVERED UNIQUELY IN TERMS OF THE GIVEN INITIAL AND CALCULATED BOUNDARY CONDITIONS THE SP IS PROVED AND THE SCATTERING PROBLEM IS DESCRIBED COMPLETELY THE CONSIDERED ISPS ARE WELL SOLVED THE ISPS ARE SET UP APPROPRIATELY FOR CONSTRUCTING THE BE CHUND TRANSFORMATIONS BTS FOR SOLUTIONS OF ASSOCIATED IBPPS OR IVPS FOR NLEES THE PROCEDURE FOR FINDING A BT FOR THE ISPY FOR NLEES THAT CAN BE USED IN DIFFERENTIAL EQUATIONS DEFINED IN THE WHOLE SPACE THE INTERREDATION BETWEEN THE ISPS AND THE CONSTRUCTED BTS ARE ESTABLISHED TO BECOME NEW POWERFUL UNIFIED TRANSFORMATIONS UTS FOR SOLVING IBVPS OR IVPS FOR NLEES THAT CAN

HYPERSINGULAR INTEGRAL EQUATIONS AND THEIR APPLICATIONS 2003-12-29

THIS MONOGRAPH IS INTENDED TO PRESENT THE FUNDAMENTALS OF THE THEORY OF ABSTRACT PARABOLIC EVOLUTION EQUATIONS AND TO SHOW HOW TO APPLY TO VARIOUS NONLINEAR DIF SION EQUATIONS AND SYSTEMS ARISING IN SCIENCE THE THEORY GIVES US A UNI ED AND S TEMATIC TREATMENT FOR CONCRETE NONLINEAR DIFFUSION MODELS THREE MAIN APPROACHES ARE KNOWN TO THE ABSTRACT PARABOLIC EVOLUTION EQUATIONS NAMELY THE SEMIGROUP METHODS THE VARIATIONAL METHODS AND THE METHODS OF USING OPERATIONAL EQUATIONS IN ORDER TO KEEP THE VOLUME OF THE MONOGRAPH IN REASONABLE LENGTH WE WILL FOCUS ON THE SEMIGROUP METHODS FOR OTHER TWO APPROACHES SEE THE RELATED REFERENCES IN BIBLIOGRAPHY THE SEMIGROUP METHODS WHICH GO BACK TO THE INVENTION OF THE ANALYTIC SE GROUPS IN THE MIDDLE OF THE LAST CENTURY ARE CHARACTERIZED BY PRECISE FORMULAS REPRESENTING THE SOLUTIONS OF THE CAUCHY PROBLEM FOR EVOLUTION EQUATIONS THE TA ANALYTIC SEMIGROUP E GENERATED BY A LINEAR OPERATOR A PROVIDES DIRECTLY A FUNDAMENTAL SOLUTION TO THE CAUCHY PROBLEM FOR AN AUTONOMOUS LINEAR E DU LUTION EQUATION AU F TO

INVERSE SCATTERING PROBLEMS AND THEIR APPLICATION TO NONLINEAR INTEGRABLE EQUATIONS 2023-05-15

IN THIS VOLUME AN ABSTRACT THEORY OF FORMS IS DEVELOPED THUS PROVIDING A CONCEPTUALLY SATISFYING FRAMEWORK FOR THE CLASSIFICATION OF FORMS OF FERMAT EQUATIONS THE CLASSICAL RESULTS ON DIAGONAL FORMS ARE EXTENDED TO THE BROADER CLASS OF ALL FORMS OF FERMAT VARIETIES THE MAIN TOPIC IS THE STUDY OF FORMS OF THE FERMAT EQUATION OVER AN ARBITRARY FIELD K USING GALOIS DESCENT ALL SUCH FORMS ARE CLASSIFIED PARTICULARLY A COMPLETE AND EXPLICIT CLASSIFICATION OF ALL CUBIC BINARY EQUATIONS IS GIVEN IF K IS A FINITE FIELD CONTAINING THE D TH ROOTS OF UNITY THE GALOIS REPRESENTATION ON L ADIC COHOMOLOGY AND SO IN PARTICULAR THE ZETA FUNCTION OF THE HYPERSURFACE ASSOCIATED WITH AN ARBITRARY FORM OF THE FERMAT EQUATION OF DEGREE D IS COMPUTED CONTENTS THE ZETA FUNCTIONGALOIS DESCENTNONABELIAN COHOMOLOGYWEIL COHOMOLOGY THEORIES AND L ADIC COHOMOLOGYCLASSIFICATION OF FORMSFORMS OF THE FERMAT EQUATION BINARY CUBIC EQUATIONSFORMS OF THE FERMAT EQUATION IREPRESENTATIONS OF SEMIDIRECT PRODUCTSTHE I ADIC COHOMOLOGY OF FERMAT VARIETIESTHE ZETA FUNCTION OF FORMS OF FERMAT EQUATIONS READERSHIP RESEARCHERS AND PROFESSIONALS IN PHYSICS AND MATHEMATICS KEYWORDS FERMAT EQUATION FERMAT VARIETY ZETA FUNCTION GALOIS DESCENT HIGHER DEGREE FORMSKEY FEATURES DETAILED PROOFS WITH MANY DIAGRAMSSELF CONTAINED ASSUMING ONLY BASIC KNOWLEDGE OF COMMUTATIVE ALGEBRA AND ALGEBRAIC GEOMETRY INCLUDING NEEDED FACTS ON I ADIC COHOMOLOGY AND VARIETIES OVER FINITE FIELDSAPPLICATION OF MODERN THEORY L ADIC COHOMOLOGY TO A DOWN TO EARTH PROBLEM COUNTING SOLUTIONS OF EQUATIONS THEREBY COMBINING THE ABSTRACT WITH THE CONCRETE AND DEMONSTRATING HOW TO USE THE MACHINERY OF MODERN ARITHMETIC GEOMETRY TO ANSWER ELEMENTARY QUESTIONSNEW RESULTS

ABSTRACT PARABOLIC EVOLUTION EQUATIONS AND THEIR APPLICATIONS 2009-11-03

THE THEORY OF DIFFERENCE EQUATIONS IS NOW ENJOYING A PERIOD OF RENAISSANCE WITNESS THE LARGE NUMBER OF PAPERS IN WHICH PROBLEMS HAVING AT FIRST SIGHT NO COMMON FEATURES ARE REDUCED TO THE INVESTIGATION OF SUBSEQUENT ITERATIONS OF THE MAPS F IR M IR M M 0 OR WHICH IS IN FACT THE SAME TO DIFFERENCE EQUATIONS THE WORLD OF DIFFERENCE EQUATIONS WHICH HAS BEEN ALMOST HIDDEN UP TO NOW BEGINS TO OPEN IN ALL ITS RICHNESS THOSE EXPERTS WHO USUALLY USE DIFFERENTIAL EQUATIONS AND IN FACT BELIEVE IN THEIR UNIVERSALITY ARE NOW DISCOVERING A COMPLETELY NEW APPROACH WHICH RE SEMBLES THE THEORY OF ORDINARY DIFFERENTIAL EQUATIONS ONLY SLIGHTLY DIFFERENCE EQUATIONS WHICH REFLECT ONE OF THE ESSENTIAL PROPERTIES OF THE REAL WORLD ITS DISCRETENESS RIGHTFUL LY OCCUPY A WORTHY PLACE IN MATHEMATICS AND ITS APPLICATIONS THE AIM OF THE PRESENT BOOK IS TO ACQUAINT THE READER WITH SOME RECENTLY DISCOVERED AND AT FIRST SIGHT UNUSUAL PROPERTIES OF SOLUTIONS FOR NONLINEAR DIFFERENCE EQUATIONS THESE PROPERTIES ENABLE US TO USE DIFFERENCE EQUATIONS IN ORDER TO MODEL COMPLICATED OS CILLATING PROCESSES THIS CAN OFTEN BE DONE IN THOSE CASES WHEN IT IS DIFFICULT TO APPLY ORDINARY DIFFERENTIAL EQUATIONS DIFFERENCE EQUATIONS ARE ALSO A USEFUL TOOL OF SYN ERGETICS AN EMERGING SCIENCE CONCERNED WITH THE STUDY OF ORDERED STRUCTURES THE APPLICATION OF THESE EQUATIONS OPENS UP NEW APPROACHES IN SOLVING ONE OF THE CENTRAL PROBLEMS OF MODERN SCIENCE THE PROBLEM OF TURBULENCE

FORMS OF FERMAT EQUATIONS AND THEIR ZETA FUNCTIONS 2004-10-18

THIS BOOK IS ESSENTIALLY A NEW EDITION REVISED AND AUGMENTED BY RESULTS OF THE LAST DECADE OF THE WORK OF THE SAME TITLE PUBLISHED IN 1968 BY NAUKA IT IS DEVOTED TO MATHEMATICAL QUESTIONS OF GAS DYNAMICS TOPICS COVERED INCLUDE FOUNDATIONS OF THE THEORY OF SYSTEMS OF QUASILINEAR EQUATIONS OF HYPERBOLIC TYPE IN TWO INDEPENDENT VARIABLES CLASSICAL AND GENERALIZED SOLUTIONS OF ONE DIMENSIONAL GAS DYNAMICS DIFFERENCE METHODS FOR SOLVING THE EQUATIONS OF GAS DYNAMICS AND GENERALIZED SOLUTIONS OF SYSTEMS OF QUASILINEAR EQUATIONS OF HYPERBOLIC TYPE

DIFFERENCE EQUATIONS AND THEIR APPLICATIONS 2012-12-06

CLASSIFICATION AND EXAMPLES OF DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS IS THE SIXTH BOOK WITHIN ORDINARY DIFFERENTIAL EQUATIONS WITH APPLICATIONS TO TRAJECTORIES AND VIBRATIONS SIX VOLUME SET AS A SET THEY ARE THE FOURTH VOLUME IN THE SERIES MATHEMATICS AND PHYSICS APPLIED TO SCIENCE AND TECHNOLOGY THIS SIXTH BOOK CONSISTS OF ONE CHAPTER 10 OF THE SET IT CONTAINS 20 EXAMPLES RELATED TO THE PRECEDING FIVE BOOKS AND CHAPTERS 1 TO 9 OF THE SET IT INCLUDES TWO RECOLLECTIONS THE FIRST WITH A CLASSIFICATION OF DIFFERENTIAL EQUATIONS INTO 500 STANDARDS AND THE SECOND WITH A LIST OF 500 APPLICATIONS THE ORDINARY DIFFERENTIAL EQUATIONS ARE CLASSIFIED IN 500 STANDARDS CONCERNING METHODS OF SOLUTION AND RELATED PROPERTIES INCLUDING I LINEAR DIFFERENTIAL EQUATIONS WITH CONSTANT OR HOMOGENEOUS COEFFICIENTS AND FINITE DIFFERENCE EQUATIONS II LINEAR AND NON LINEAR SINGLE DIFFERENTIAL EQUATIONS AND SIMULTANEOUS SYSTEMS III EXISTENCE UNICITY AND OTHER PROPERTIES IV DERIVATION OF GENERAL PARTICULAR SPECIAL ANALYTIC REGULAR IRREGULAR AND NORMAL INTEGRALS V LINEAR DIFFERENTIAL EQUATIONS WITH VARIABLE COEFFICIENTS INCLUDING KNOWN AND NEW SPECIAL FUNCTIONS THE THEORY OF DIFFERENTIAL EQUATIONS IS APPLIED TO THE DETAILED SOLUTION OF 500 PHYSICAL AND ENGINEERING PROBLEMS INCLUDING I ONE AND MULTIDIMENSIONAL OSCILLATORS WITH DAMPING OR AMPLIFICATION WITH NON RESONANT OR RESONANT FORCING II SINGLE NON LINEAR AND PARAMETRIC RESONANCE III

BIFURCATIONS AND CHAOTIC DYNAMICAL SYSTEMS IV LONGITUDINAL AND TRANSVERSAL DEFORMATIONS AND BUCKLING OF BARS BEAMS AND PLATES V TRAJECTORIES OF PARTICLES VI OSCILLATIONS AND WAVES IN NON UNIFORM MEDIA DUCTS AND WAVE GUIDES PROVIDES DETAILED SOLUTION OF EXAMPLES OF DIFFERENTIAL EQUATIONS OF THE TYPES COVERED IN TOMES L 5 OF THE SET ORDINARY DIFFERENTIAL EQUATIONS WITH APPLICATIONS TO TRAJECTORIES AND VIBRATIONS SIX VOLUME SET INCLUDES PHYSICAL AND ENGINEERING PROBLEMS THAT EXTEND THOSE PRESENTED IN THE TOMES 1 6 ORDINARY DIFFERENTIAL EQUATIONS WITH APPLICATIONS TO TRAJECTORIES AND VIBRATIONS SIX VOLUME SET INCLUDES A CLASSIFICATION OF ORDINARY DIFFERENTIAL EQUATIONS AND THEIR PROPERTIES INTO 500 STANDARDS THAT CAN SERVE AS A LOOK UP TABLE OF METHODS OF SOLUTION COVERS A RECOLLECTION OF 500 PHYSICAL AND ENGINEERING PROBLEMS AND SUB CASES THAT INVOLVE THE SOLUTION OF DIFFERENTIAL EQUATIONS PRESENTS THE PROBLEMS USED AS EXAMPLES INCLUDING FORMULATION SOLUTION AND INTERPRETATION OF RESULTS

Systems of Quasilinear Equations and Their Applications to Gas Dynamics 1983-12-31

AS A RULE MANY PRACTICAL PROBLEMS ARE STUDIED IN A SITUATION WHEN THE INPUT DATA ARE INCOMPLETE FOR EXAMPLE THIS IS THE CASE FOR A PARABOLIC PARTIAL DIFFERENTIAL EQUATION DESCRIBING THE NON STATIONARY PHYSICAL PROCESS OF HEAT AND MASS TRANSFER IF IT CONTAINS THE UNKNOWN THERMAL CONDUCTIVITY COEFFICIENT SUCH SITUATIONS ARISING IN PHYSICAL PROBLEMS MOTIVATED THE APPEARANCE OF THE PRESENT WORK IN THIS MONOGRAPH THE AUTHOR CONSIDERS NUMERICAL SOLUTIONS OF THE QUASI INVERSION PROBLEMS TO WHICH THE SOLUTION OF THE ORIGINAL COEFFICIENT INVERSE PROBLEMS ARE REDUCED UNDERGROUND FLUID DYNAMICS IS TAKEN AS A FIELD OF PRACTICAL USE OF COEFFICIENT INVERSE PROBLEMS THE SIGNIFICANCE OF THESE PROBLEMS FOR THIS APPLICATION DOMAIN CONSISTS IN THE POSSIBILITY TO DETERMINE THE PHYSICAL FIELDS OF PARAMETERS THAT CHARACTERIZE THE FILTRATION PROPERTIES OF POROUS MEDIA OIL STRATA THIS PROVIDES THE POSSIBILITY OF PREDICTING THE CONDITIONS OF OIL FIELD DEVELOPMENT AND THE EFFECTS OF THE EXPLOITATION THE RESEARCH CARRIED OUT BY THE AUTHOR SHOWED THAT THE QUASI INVERSION METHOD CAN BE APPLIED ALSO FOR SOLUTION OF INTERIOR COEFFICIENT INVERSE PROBLEMS BY REDUCING THEM TO THE PROBLEM OF CONTINUATION OF A SOLUTION TO A PARABOLIC EQUATION THIS REDUCTION IS BASED ON THE RESULTS OF THE PROOFS OF THE UNIQUENESS THEOREMS FOR SOLUTIONS OF THE CORRESPONDING COEFFICIENT INVERSE PROBLEMS

CLASSIFICATION AND EXAMPLES OF DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS 2019-11-05

USED IN UNDERGRADUATE CLASSROOMS ACROSS THE USA THIS IS A CLEARLY WRITTEN RIGOROUS INTRODUCTION TO DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS FULLY UNDERSTANDABLE TO STUDENTS WHO HAVE HAD ONE YEAR OF CALCULUS THIS BOOK DISTINGUISHES ITSELF FROM OTHER DIFFERENTIAL EQUATIONS TEXTS THROUGH ITS ENGAGING APPLICATION OF THE SUBJECT MATTER TO INTERESTING SCENARIOS THIS FOURTH EDITION INCORPORATES EARLIER INTRODUCTORY MATERIAL ON BIFURCATION THEORY AND ADDS A NEW CHAPTER ON STURM LIOUVILLE BOUNDARY VALUE PROBLEMS COMPUTER PROGRAMS IN C PASCAL AND FORTRAN ARE PRESENTED THROUGHOUT THE TEXT TO SHOW READERS HOW TO APPLY DIFFERENTIAL EQUATIONS TOWARDS QUANTITATIVE PROBLEMS

COEFFICIENT INVERSE PROBLEMS FOR PARABOLIC TYPE EQUATIONS AND THEIR APPLICATION 2014-07-24

NONLINEAR DIFFUSION EQUATIONS HAVE HELD A PROMINENT PLACE IN THE THEORY OF PARTIAL DIFFERENTIAL EQUATIONS BOTH FOR THE CHALLENGING AND DEEP MATH EMATICAL QUESTIONS POSED BY SUCH EQUATIONS AND THE IMPORTANT ROLE THEY PLAY IN MANY AREAS OF SCIENCE AND TECHNOLOGY EXAMPLES OF CURRENT INTER EST ARE BIOLOGICAL AND CHEMICAL PATTERN FORMATION SEMICONDUCTOR DESIGN ENVIRONMENTAL PROBLEMS SUCH AS SOLUTE TRANSPORT IN GROUNDWATER FLOW PHASE TRANSITIONS AND COMBUSTION THEORY CENTRAL TO THE THEORY IS THE EQUATION UT CP U F U HERE DENOTES THE N DIMENSIONAL LAPLACIAN CP AND F ARE GIVEN FUNCTIONS AND THE SOLUTION IS DEFINED ON SOME DOMAIN N X 0 T IN SPACE TIME FUN DAMENTAL QUESTIONS CONCERN THE EXISTENCE UNIQUENESS AND REGULARITY OF SO LUTIONS THE EXISTENCE OF INTERFACES OR FREE BOUNDARIES THE QUESTION AS TO WHETHER OR NOT THE SOLUTION CAN BE CONTINUED FOR ALL TIME THE ASYMPTOTIC BEHAVIOR BOTH IN TIME AND SPACE AND THE DEVELOPMENT OF SINGULARITIES FOR INSTANCE WHEN THE SOLUTION CEASES TO EXIST AFTER FINITE TIME EITHER THROUGH EXTINCTION OR THROUGH BLOW UP

DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS 2013-11-27

THIS VOLUME PRESENTS A COLLECTION OF LECTURES ON LINEAR PARTIAL DIFFERNTIAL EQUATIONS AND SEMIGROUPS NONLINEAR EQUATIONS STOCHASTIC EVOLUTIONARY PROCESSES AND EVOLUTION PROBLEMS FROM PHYSICS ENGINEERING AND MATHEMATICAL BIOLOGY THE CONTRIBUTIONS COME FROM THE ÓTH INTERNATIONAL CONFERENCE ON EVOLUTION EQUATIONS AND THEIR APPLICATIONS IN PHYSICAL AND LIFE SCIENCES HELD IN BAD HERRENALB GERMANY

NONLINEAR DIFFUSION EQUATIONS AND THEIR EQUILIBRIUM STATES, 3 2012-12-06

THIS BOOK SERVES TWO PURPOSES THE AUTHORS PRESENT IMPORTANT ASPECTS OF MODERN RESEARCH ON THE MATHEMATICAL STRUCTURE OF EINSTEIN S FIELD EQUATIONS AND THEY SHOW HOW TO EXTRACT THEIR PHYSICAL CONTENT FROM THEM BY MATHEMATICALLY EXACT METHODS THE ESSAYS ARE DEVOTED TO EXACT SOLUTIONS AND TO THE CAUCHY PROBLEM OF THE FIELD EQUATIONS AS WELL AS TO POST NEWTONIAN APPROXIMATIONS THAT HAVE DIRECT PHYSICAL IMPLICATIONS FURTHER TOPICS CONCERN QUANTUM GRAVITY AND OPTICS IN GRAVITATIONAL FIELDS THE BOOK ADDRESSES RESEARCHERS IN RELATIVITY AND DIFFERENTIAL GEOMETRY BUT CAN ALSO BE USED AS ADDITIONAL READING MATERIAL FOR GRADUATE STUDENTS

EVOLUTION EQUATIONS AND THEIR APPLICATIONS IN PHYSICAL AND LIFE SCIENCES 2000-11-08

THIS TEXTBOOK IS A UNIQUE BLEND OF THE THEORY OF DIFFERENTIAL EQUATIONS AND THEIR EXCITING APPLICATION TO REAL WORLD PROBLEMS FIRST AND FOREMOST IT IS A RIGOROUS STUDY OF ORDINARY DIFFERENTIAL EQUATIONS AND CAN BE FULLY UNDERSTOOD BY ANYONE WHO HAS COMPLETED ONE YEAR OF CALCULUS HOWEVER IN ADDITION TO THE TRADITIONAL APPLICATIONS IT ALSO CONTAINS MANY EXCITING REAL LIFE PROBLEMS THESE APPLICATIONS ARE COMPLETELY SELF CONTAINED FIRST THE PROBLEM TO BE SOLVED IS OUTLINED CLEARLY AND ONE OR MORE DIFFERENTIAL EQUATIONS ARE DERIVED AS A MODEL FOR THIS PROBLEM THESE EQUATIONS ARE THEN SOLVED AND THE RESULTS ARE COMPARED WITH REAL WORLD DATA THE FOLLOWING APPLICATIONS ARE COVERED IN THIS TEXT I IN SECTION 1 3 WE PROVE THAT THE BEAUTIFUL PAINTING DISCIPLES AT EMMAUS WHICH WAS BOUGHT BY THE REMBRANDT SOCIETY OF BELGIUM FOR 170 000 WAS A MODERN FORGERY 2 IN SECTION 1 5 WE DERIVE DIFFERENTIAL EQUATIONS WHICH GOVERN THE POPULATION GROWTH OF VARIOUS SPECIES AND COMPARE THE RESULTS PREDICTED BY OUR MODELS WITH THE KNOWN VALUES OF THE POPULATIONS 3 IN SECTION 1 6 WE TRY TO DETERMINE WHETHER TIGHTLY SEALED DRUMS FILLED WITH CONCENTRATED WASTE MATERIAL WILL CRACK UPON IMPACT WITH THE OCEAN FLOOR IN THIS SECTION WE ALSO DESCRIBE SEVERAL TRICKS FOR OBTAINING INFORMA TION ABOUT SOLUTIONS OF A DIFFERENTIAL EQUATION THAT CANNOT BE SOLVED EXPLICITLY

EINSTEIN'S FIELD EQUATIONS AND THEIR PHYSICAL IMPLICATIONS 2008-01-11

THE BOOK DEALS WITH LINEAR INTEGRAL EQUATIONS THAT IS EQUATIONS INVOLVING AN UNKNOWN FUNCTION WHICH APPEARS UNDER THE INTEGRAL SIGN AND CONTAINS TOPICS SUCH AS ABEL S INTEGRAL EQUATION VOLTERRA INTEGRAL EQUATIONS FREDHOLM INTEGRAL INTEGRAL EQUATIONS SINGULAR AND NONLINEAR INTEGRAL EQUATIONS ORTHOGONAL SYSTEMS OF FUNCTIONS GREEN S FUNCTION AS A SYMMETRIC KERNEL OF THE INTEGRAL EQUATIONS

DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS 2012-12-06

PRIMARILY INTENDED FOR THE UNDERGRADUATE STUDENTS IN MATHEMATICS PHYSICS AND ENGINEERING THIS TEXT GIVES IN DEPTH COVERAGE OF DIFFERENTIAL EQUATIONS AND THE METHODS OF SOLVING THEM THE BOOK BEGINS WITH THE BASIC DEFINITIONS THE PHYSICAL AND GEOMETRIC ORIGINS OF DIFFERENTIAL EQUATIONS AND THE METHODS FOR SOLVING FIRST ORDER DIFFERENTIAL EQUATIONS THEN IT GOES ON TO GIVE THE APPLICATIONS OF THESE EQUATIONS TO SUCH AREAS AS BIOLOGY MEDICAL SCIENCES ELECTRICAL ENGINEERING AND ECONOMICS THE TEXT ALSO DISCUSSES SYSTEMATICALLY AND LOGICALLY HIGHER ORDER DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS TO TELECOM MUNICATIONS CIVIL ENGINEERING CARDIOLOGY AND DETECTION OF DIABETES AS ALSO THE METHODS OF SOLVING SIMULTANEOUS DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS PARTIAL DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS AND THEIR APPLICATIONS AND THEIR APPLICATIONS AND THEORY AND APPLICATION WOULD ALSO BE USEFUL TO POSTGRADUATE STUDENTS

INTEGRAL EQUATIONS AND THEIR APPLICATIONS 2007

ANALYTIC EXTENSION IS A MYSTERIOUSLY BEAUTIFUL PROPERTY OF ANALYTIC FUNCTIONS WITH THIS POINT OF VIEW IN MIND THE RELATED SURVEY PAPERS WERE GATHERED FROM VARIOUS FIELDS IN ANALYSIS SUCH AS INTEGRAL TRANSFORMS REPRODUCING KERNELS OPERATOR INEQUALITIES CAUCHY TRANSFORM PARTIAL DIFFERENTIAL EQUATIONS INVERSE PROBLEMS RIEMANN SURFACES EULER MACLAURIN SUMMATION FORMULAS SEVERAL COMPLEX VARIABLES SCATTERING THEORY SAMPLING THEORY AND ANALYTIC NUMBER THEORY TO NAME A FEW AUDIENCE RESEARCHERS AND GRADUATE STUDENTS IN COMPLEX ANALYSIS PARTIAL DIFFERENTIAL EQUATIONS ANALYTIC NUMBER THEORY OPERATOR THEORY AND INVERSE PROBLEMS

DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS 2004-01-01

IT TOOK MANY DECADES FOR PEIRCE S CONEEPT OF A RELATION TO FIND ITS WAY INTO THE MICROELECTRONIC INNARDS OF CONTROL SYSTEMS OF EEMENT KILNS SUBWAY TRAINS AND TUNNEL DIGGING MACHINERY BUT WHAT IS AMAZING IS THAT THE MORE WE LEAM ABOUT THE BASICALLY SIMPLE CONEEPT OF A RELATION THE MORE AWARE WE BECOME OF ITS FUNDAMENTAL IMPORTANEE AND WIDE RANGING RAMIFICATIONS THE WORK BY DI NOLA PEDRYCZ SANCHEZ AND SESSA TAKES US A LONG DISTANEE IN THIS DIRECTION BY OPENING NEW VISTAS ON BOTH THE THEORY AND APPLICATIONS OF FUZZY RELATIONS RELATIONS WHICH SERVE TO MODEL THE IMPRECISE CONEEPTS WHICH PERVADE THE REAL WORLD DI NOLA PEDRYCZ SANCHEZ AND SESSA FOCUS THEIR ATTENTION ON A EENTRAL PROBLEM IN THE THEORY OF FUZZY RELATIONS NAMELY THE SOLUTION OF FUZZY RELATIONAL EQUATIONS THE THEORY OF SUCH EQUATIONS WAS INITIATED BY SANCHEZ IN 1976 INA SEMINAL PAPER DEALING WITH THE RESOLUTION OF COMPOSITE FUZZY RELATIONAL EQUATIONS SINCE THEN HUNDREDS OF PAPERS HAVE BEEN WRITTEN ON THIS AND RELATED TOPICS WITH MAJOR CONTRIBUTIONS ORIGINATING IN FRANCE ITALY SPAIN GERMANY POLAND JAPAN CHINA THE SOVIET UNION INDIA AND OTHER COUNTRIES THE BIBLIOGRAPHY INCLUDED IN THIS VOLUME HIGHLIGHTS THE WIDESPREAD INTEREST IN THE THEORY OF FUZZY RELATIONAL EQUATIONS AND THE BROAD SPECTRUM OF ITS APPLICATIONS

ANALYTIC EXTENSION FORMULAS AND THEIR APPLICATIONS 2013-03-09

THE AIM OF THE SYMPOSIUM WAS TO PROVIDE A FORUM FOR PRESENTING AND DISCUSSING RECENT DEVELOPMENTS AND TRENDS IN REACTION DIFFUSION EQUATIONS AND TO PROMOTE SCIENTIFIC EXCHANGES AMONG MATHEMATICIANS IN CHINA AND IN JAPAN ESPECIALLY FOR THE YOUNGER GENERATION THE TOPICS DISCUSSED WERE LAYER DYNAMICS TRAVELING WAVE SOLUTIONS AND ITS STABILITY EQUILIBRIUM SOLUTIONS AND ITS LIMIT BEHAVIOR STABILITY BIFURCATION PHENOMENA COMPUTATIONAL SOLUTIONS AND INFINITE DIMENSIONAL DYNAMICAL SYSTEM

Fuzzy Relation Equations and Their Applications to Knowledge Engineering 2013-03-09

THIS BOOK OFFERS THE FIRST COMPREHENSIVE PRESENTATION OF MEASURE VALUED SOLUTIONS FOR NONLINEAR DETERMINISTIC AND STOCHASTIC EVOLUTION EQUATIONS ON INFINITE DIMENSIONAL BANACH SPACES UNLIKE TRADITIONAL SOLUTIONS MEASURE VALUED SOLUTIONS ALLOW FOR A MUCH BROADER CLASS OF ABSTRACT EVOLUTION EQUATIONS TO BE ADDRESSED PROVIDING A BROADER APPROACH THE BOOK PRESENTS EXTENSIVE RESULTS ON THE EXISTENCE OF MEASURE VALUED SOLUTIONS FOR DIFFERENTIAL EQUATIONS THAT HAVE NO SOLUTIONS IN THE USUAL SENSE IT COVERS A RANGE OF TOPICS INCLUDING EVOLUTION EQUATIONS WITH CONTINUOUS DISCONTINUOUS VECTOR FIELDS NEUTRAL EVOLUTION EQUATIONS SUBJECT TO VECTOR MEASURES AS IMPULSIVE FORCES STOCHASTIC EVOLUTION EQUATIONS AND OPTIMAL CONTROL OF EVOLUTION EQUATIONS THE OPTIMAL CONTROL PROBLEMS CONSIDERED COVER THE EXISTENCE OF SOLUTIONS NECESSARY CONDITIONS OF OPTIMALITY AND MORE SIGNIFICANTLY COMPLEMENTING THE EXISTING LITERATURE THIS BOOK WILL BE OF GREAT INTEREST TO RESEARCHERS IN FUNCTIONAL ANALYSIS PARTIAL DIFFERENTIAL EQUATIONS DYNAMIC SYSTEMS AND THEIR OPTIMAL CONTROL AND THEIR APPLICATIONS ADVANCING PREVIOUS RESEARCH AND PROVIDING A FOUNDATION FOR FURTHER EXPLORATION OF THE FIELD

CHARACTERISTIC EQUATIONS OF TUNGSTEN FILAMENT LAMPS AND THEIR APPLICATION IN HETEROCHROMATIC PHOTOMETRY 1915

THIS BOOK WHICH IS A CONTINUATION OF ALMOST AUTOMORPHIC TYPE AND ALMOST PERIODIC TYPE FUNCTIONS IN ABSTRACT SPACES PRESENTS RECENT TRENDS AND DEVELOPMENTS UPON FRACTIONAL FIRST AND SECOND ORDER SEMILINEAR DIFFERENCE AND DIFFERENTIAL EQUATIONS INCLUDING DEGENERATE ONES VARIOUS STABILITY UNIQUENESS AND EXISTENCE RESULTS ARE ESTABLISHED USING VARIOUS TOOLS FROM NONLINEAR FUNCTIONAL ANALYSIS AND OPERATOR THEORY SUCH AS SEMIGROUP METHODS VARIOUS APPLICATIONS TO PARTIAL DIFFERENTIAL EQUATIONS AND THE DYNAMIC OF POPULATIONS ARE AMPLY DISCUSSED THIS SELF CONTAINED VOLUME IS PRIMARILY INTENDED FOR ADVANCED UNDERGRADUATE AND GRADUATE STUDENTS POST GRADUATES AND RESEARCHERS BUT MAY ALSO BE OF INTEREST TO NON MATHEMATICIANS SUCH AS PHYSICISTS AND THEORETICALLY ORIENTED ENGINEERS IT CAN ALSO BE USED AS A GRADUATE TEXT ON EVOLUTION EQUATIONS AND DIFFERENCE EQUATIONS AND THEIR APPLICATIONS TO PARTIAL DIFFERENTIAL EQUATIONS AND PRACTICAL PROBLEMS ARISING IN POPULATION DYNAMICS FOR COMPLETENESS DETAILED PRELIMINARY BACKGROUND ON BANACH AND HILBERT SPACES OPERATOR THEORY SEMIGROUPS OF OPERATORS AND ALMOST PERIODIC FUNCTIONS AND THEIR SPECTRAL THEORY ARE INCLUDED AS WELL

REACTION-DIFFUSION EQUATIONS AND THEIR APPLICATIONS AND COMPUTATIONAL ASPECTS - PROCEEDINGS OF THE CHINA-JAPAN

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REVIEWS THE LATEST DEVELOPMENTS IN A SUBJECT RELEVANT TO PROFESSIONALS INVOLVED IN THE SIMULATION AND DESIGN OF CHEMICAL PROCESSES INCLUDES DISK OF COMPUTER PROGRAMS

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THIS BOOK STUDIES TIME DEPENDENT PARTIAL DIFFERENTIAL EQUATIONS AND THEIR NUMERICAL SOLUTION DEVELOPING THE ANALYTIC AND THE NUMERICAL THEORY IN PARALLEL AND PLACING SPECIAL EMPHASIS ON THE DISCRETIZATION OF BOUNDARY CONDITIONS THE THEORETICAL RESULTS ARE THEN APPLIED TO NEWTONIAN AND NON NEWTONIAN FLOWS TWO PHASE FLOWS AND GEOPHYSICAL PROBLEMS THIS BOOK WILL BE A USEFUL INTRODUCTION TO THE FIELD FOR APPLIED MATHEMATICIANS AND GRADUATE STUDENTS

SEMILINEAR EVOLUTION EQUATIONS AND THEIR APPLICATIONS 2018-10-23

NO DETAILED DESCRIPTION AVAILABLE FOR THE LITERARY USE OF FORMULAS IN GUTHLAC II AND THEIR RELATION TO FELIX S VITA SANCTI GUTHLACI

ELEMENTARY COURSE IN LAGRANGE'S EQUATIONS AND THEIR APPLICATIONS TO SOLUTIONS OF PROBLEMS OF DYNAMICS 1917

THIS BOOK IS INTENDED TO MAKE RECENT RESULTS ON THE DERIVATION OF HIGHER ORDER NUMERICAL SCHEMES FOR RANDOM ORDINARY DIFFERENTIAL EQUATIONS RODES AVAILABLE TO A BROADER READERSHIP AND TO FAMILIARIZE READERS WITH RODES THEMSELVES AS WELL AS THE CLOSELY ASSOCIATED THEORY OF RANDOM DYNAMICAL SYSTEMS IN ADDITION IT DEMONSTRATES HOW RODES ARE BEING USED IN THE BIOLOGICAL SCIENCES WHERE NON GAUSSIAN AND BOUNDED NOISE ARE OFTEN MORE REALISTIC THAN THE GAUSSIAN WHITE NOISE IN STOCHASTIC DIFFERENTIAL EQUATIONS SODES RODES ARE USED IN MANY IMPORTANT APPLICATIONS AND PLAY A FUNDAMENTAL ROLE IN THE THEORY OF RANDOM DYNAMICAL SYSTEMS THEY CAN BE ANALYZED PATHWISE WITH DETERMINISTIC CALCULUS BUT REQUIRE FURTHER TREATMENT BEYOND THAT OF CLASSICAL ODE THEORY DUE TO THE LACK OF SMOOTHNESS IN THEIR TIME VARIABLE ALTHOUGH CLASSICAL NUMERICAL SCHEMES FOR ODES CAN BE USED PATHWISE FOR RODES THEY RARELY ATTAIN THEIR TRADITIONAL ORDER SINCE THE SOLUTIONS OF RODES DO NOT HAVE SUFFICIENT SMOOTHNESS TO HAVE TAYLOR EXPANSIONS IN THE USUAL SENSE HOWEVER TAYLOR LIKE EXPANSIONS CAN BE DERIVED FOR RODES USING AN ITERATED APPLICATION OF THE APPROPRIATE CHAIN RULE IN INTEGRAL FORM AND REPRESENT THE STARTING POINT FOR THE SYSTEMATIC DERIVATION OF CONSISTENT HIGHER ORDER NUMERICAL SCHEMES FOR RODES THE BOOK IS DIRECTED AT A WIDE RANGE OF READERS IN APPLIED AND COMPUTATIONAL MATHEMATICS AND RELATED AREAS AS WELL AS READERS WHO ARE INTERESTED IN THE APPLICATIONS OF MATHEMATICAL MODELS INVOLVING RANDOM EFFECTS IN PARTICULAR IN THE BIOLOGICAL SCIENCES THE LEVEL OF THIS BOOK IS SUITABLE FOR GRADUATE STUDENTS IN APPLIED MATHEMATICS AND RELATED AREAS COMPUTATIONAL SCIENCES AND SYSTEMS BIOLOGY A BASIC KNOWLEDGE OF ORDINARY DIFFERENTIAL EQUATIONS AND NUMERICAL ANALYSIS IS REQUIRED

NONNARCOTIC DRUGS FOR THE RELIEF OF PAIN AND THEIR MECHANISM OF ACTION 1960

THIS BOOK TRIES TO POINT OUT THE MATHEMATICAL IMPORTANCE OF THE PARTIAL DIFFERENTIAL EQUATIONS OF FIRST ORDER PDEFO IN PHYSICS AND APPLIED SCIENCES THE INTENTION IS TO PROVIDE MATHEMATICIANS WITH A WIDE VIEW OF THE APPLICATIONS OF THIS BRANCH IN PHYSICS AND TO GIVE PHYSICISTS AND APPLIED SCIENTISTS A POWERFUL TOOL FOR SOLVING SOME PROBLEMS APPEARING IN CLASSICAL MECHANICS QUANTUM MECHANICS OPTICS AND GENERAL RELATIVITY THIS BOOK IS INTENDED FOR SENIOR OR FIRST YEAR GRADUATE STUDENTS IN MATHEMATICS PHYSICS OR ENGINEERING CURRICULA THIS BOOK IS UNIQUE IN THE SENSE THAT IT COVERS THE APPLICATIONS OF PDEFO IN SEVERAL BRANCHES OF APPLIED MATHEMATICS AND FILLS THE THEORETICAL GAP BETWEEN THE FORMAL MATHEMATICAL PRESENTATION OF THE THEORY AND THE PURE APPLIED TOOL TO PHYSICAL PROBLEMS THAT ARE CONTAINED IN OTHER BOOKS IMPROVEMENTS MADE IN THIS SECOND EDITION INCLUDE CORRECTED TYPOGRAPHICAL ERRORS REWRITTEN TEXT TO IMPROVE THE FLOW AND ENRICH THE MATERIAL ADDED EXERCISES IN ALL CHAPTERS NEW APPLICATIONS IN CHAPTERS 1 2 AND 5 AND EXPANDED EXAMPLES

MODELING VAPOR-LIQUID EQUILIBRIA 1998-05-28

THIS BOOK AIMS TO INTRODUCE SOME NEW TRENDS AND RESULTS ON THE STUDY OF THE FRACTIONAL DIFFERENTIAL EQUATIONS AND TO PROVIDE A GOOD UNDERSTANDING OF THIS FIELD TO BEGINNERS WHO ARE

INTERESTED IN THIS FIELD WHICH IS THE AUTHORS BEAUTIFUL HOPE THIS BOOK DESCRIBES THEORETICAL AND NUMERICAL ASPECTS OF THE FRACTIONAL PARTIAL DIFFERENTIAL EQUATIONS INCLUDING THE AUTHORS RESEARCHES IN THIS FIELD SUCH AS THE FRACTIONAL NONLINEAR SCHR. DINGER EQUATIONS FRACTIONAL LANDAU LIFSHITZ EQUATIONS AND FRACTIONAL GINZBURG LANDAU EQUATIONS IT ALSO COVERS ENOUGH FUNDAMENTAL KNOWLEDGE ON THE FRACTIONAL DERIVATIVES AND FRACTIONAL INTEGRALS AND ENOUGH BACKGROUND OF THE FRACTIONAL PRESIDENTIAL EQUATIONSFRACTIONAL DIFFERENTIAL EQUATIONSNUMERICAL APPROXIMATIONS IN FRACTIONAL CALCULUSNUMERICAL METHODS FOR THE FRACTIONAL ORDINARY DIFFERENTIAL EQUATIONSNUMERICAL METHODS FOR FRACTIONAL PARTIAL DIFFERENTIAL EQUATIONS READERSHIP GRADUATE STUDENTS AND RESEARCHERS IN MATHEMATICAL PHYSICS NUMERICAL ANALYSIS AND COMPUTATIONAL MATHEMATICS KEY FEATURES THIS BOOK COVERS THE FUNDAMENTALS OF THIS FIELD ESPECIALLY FOR THE BEGINNERSTHE BOOK COVERS NEW TRENDS AND RESULTS IN THIS FIELDTHE BOOK COVERS NUMERICAL RESULTS WHICH WILL BE OF BROAD INTERESTS TO RESEARCHERSKEY WORDS FRACTIONAL PARTIAL DIFFERENTIAL EQUATIONS NUMERICAL SOLUTIONS

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A Treatise on Differential Equations 1877

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Partial Differential Equations Of First Order And Their Applications To Physics (2nd Edition) 2012-03-21

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