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Introduction to Abstract Algebra 1990 Instructions for Form 1041 and Schedules A, B, D, G, J, and K-1 Finite Form Representations for Meijer G and Fox H Functions Number Theory I Algebra Brain Receptor Methodologies The Economic Journal Structure Theory for Canonical Classes of Finite Groups The Encyclopaedia Britannica ... Torsors, Reductive Group Schemes and Extended Affine Lie Algebras Fractional Programming New Developments in Lie Theory and Their Applications A-level Mathematics Challenging Drill Questions (Yellowreef) Surveys on Surgery Theory (AM-145), Volume 1 Einstein's Theory of Unified Fields The Tenth Mental Measurements Yearbook Stochastic Dynamics for Systems Biology Brownian Motion and Stochastic Calculus Algorithms and Computation Advances in Information Retrieval Canonical Problems in Scattering and Potential Theory Part II Arithmetic Differential Equations Applied Elasticity A Collection of Problems on Mathematical Physics Cryptography in Constant Parallel Time Relativistic Quantum Theory of Atoms and Molecules Ramanujan's Notebooks Foundations of Signal Processing Topics in Classical Automorphic Forms Rough Sets and Current Trends in Computing Interactive Theorem Proving and Program Development Approximation and Modeling with B-Splines Mathematics for Economists with Applications General Relativity for Mathematicians Your Federal Income Tax for Individuals Numerical Bayesian Methods Applied to Signal Processing Mathematical Analysis Geometry of Isotropic Convex Bodies Advanced Calculus Poincare-Einstein Holography for Forms via Conformal Geometry in the Bulk

Introduction to Abstract Algebra

2014-07

PRESENTS A SYSTEMATIC APPROACH TO ONE OF MATH S MOST INTIMIDATING CONCEPTS AVOIDING THE PITFALLS COMMON IN THE STANDARD TEXTBOOKS THIS TITLE BEGINS WITH FAMILIAR TOPICS SUCH AS RINGS NUMBERS AND GROUPS BEFORE INTRODUCING MORE DIFFICULT CONCEPTS

1990 Instructions for Form 1041 and Schedules A, B, D, G, J, and K-1

1990

THIS BOOK DEPICTS A WIDE RANGE OF SITUATIONS IN WHICH THERE EXIST FINITE FORM REPRESENTATIONS FOR THE MEIJER G AND THE FOX H FUNCTIONS ACCORDINGLY IT WILL BE OF INTEREST TO RESEARCHERS AND GRADUATE STUDENTS WHO WHEN IMPLEMENTING LIKELIHOOD RATIO TESTS IN MULTIVARIATE ANALYSIS WOULD LIKE TO KNOW IF THERE EXISTS AN EXPLICIT MANAGEABLE FINITE FORM FOR THE DISTRIBUTION OF THE TEST STATISTICS IN THESE CASES BOTH THE EXACT QUANTILES AND THE EXACT P VALUES OF THE LIKELIHOOD RATIO TESTS CAN BE COMPUTED QUICKLY AND EFFICIENTLY THE TEST STATISTICS IN QUESTION RANGE FROM COMMON ONES SUCH AS THOSE USED TO TEST E G THE EQUALITY OF MEANS OR THE INDEPENDENCE OF BLOCKS OF VARIABLES IN REAL OR COMPLEX NORMALLY DISTRIBUTED RANDOM VECTORS TO FAR MORE ELABORATE TESTS ON THE STRUCTURE OF COVARIANCE MATRICES AND EQUALITY OF MEAN VECTORS THE BOOK ALSO PROVIDES COMPUTATIONAL MODULES IN MATHEMATICA MAXIMA AND R WHICH ALLOW READERS TO EASILY IMPLEMENT PLOT AND COMPUTE THE DISTRIBUTIONS OF ANY OF THESE STATISTICS OR ANY OTHER STATISTICS THAT FIT INTO THE GENERAL PARADIGM DESCRIBED HERE

Finite Form Representations for Meijer G and Fox H Functions

2019-12-13

A UNIFIED SURVEY OF BOTH THE STATUS QUO AND THE CONTINUING TRENDS OF VARIOUS BRANCHES OF NUMBER THEORY MOTIVATED BY ELEMENTARY PROBLEMS THE AUTHORS PRESENT TODAYS MOST SIGNIFICANT RESULTS AND METHODS TOPICS COVERED INCLUDE NON ABELIAN GENERALISATIONS OF CLASS FIELD THEORY RECURSIVE COMPUTABILITY AND DIOPHANTINE EQUATIONS ZETA AND L FUNCTIONS THE BOOK IS ROUNDED OFF WITH AN OVERVIEW OF THE MAJOR CONJECTURES MOST OF WHICH ARE BASED ON ANALOGIES BETWEEN FUNCTIONS AND NUMBERS AND ON CONNECTIONS WITH OTHER BRANCHES OF MATHEMATICS SUCH AS ANALYSIS REPRESENTATION THEORY GEOMETRY AND ALGEBRAIC TOPOLOGY

Number Theory I

2013-04-17

COMPARED WITH THE ORIGINAL GERMAN EDITION THIS VOLUME CONTAINS THE RESULTS OF MORE RECENT RESEARCH WHICH HAVE TO SOME EXTENT ORIGINATED FROM PROBLEMS RAISED IN THE PREVIOUS GERMAN EDITION MOREOVER MANY MINOR AND SOME IMPORTANT MODIFICATIONS HAVE BEEN CARRIED OUT FOR EXAMPLE PARAGRAPHS 2 5 WERE AMENDED AND THEIR ORDER CHANGED ON THE ADVICE OF G PICKERT PARAGRAPH 7 HAS BEEN THOROUGHLY REVISED MANY IMPROVEMENTS ORIGINATE FROM H J WEINERT WHO BY ENLISTING THE SERVICES OF A WORKING TEAM OF THE TEACHERS TRAINING COLLEGE OF POTSDAM HAS SUBJECTED LARGE PARTS OF THIS BOOK TO AN EXACT AND CONSTRUCTIVE REVIEW THIS APPLIES PARTICULARLY TO PARAGRAPHS 9 50 51 60 63 66 79 92 94 97 and 100 and TO THE EXERCISES IN THIS CONNECTION PARAGRAPHS 64 and 79 HAVE HAD TO BE PARTLY REWRITTEN IN CONSEQUENCE OF THE CORRECTION

Algebra

2014-07-21

BRAIN RECEPTOR METHODOLOGIES PART B AMINO ACIDS PEPTIDES PSYCHOACTIVE DRUGS IS THE SECOND OF THE TWO PART FIRST VOLUME OF THE NEUROBIOLOGICAL RESEARCH SERIES WHICH PROVIDES A COMPREHENSIVE VIEW OF VARIOUS SUBDISCIPLINES WITHIN NEUROBIOLOGY THE FIRST VOLUME PARTS A AND B DEALS WITH THE AREA OF NEUROTRANSMITTER AND NEUROMODULATOR RECEPTORS IN BRAIN FUTURE VOLUMES WILL COVER THE SUBDISCIPLINES OF NEUROANATOMY NEUROPHYSIOLOGY BRAIN SPECIFIC MACROMOLECULES NEUROCHEMISTRY AND BEHAVIORAL NEUROBIOLOGY IT IS HOPED THAT THE SERIES WILL BE OF EQUAL VALUE FOR BOTH BASIC AS WELL AS CLINICAL SCIENTISTS PART B CONTINUES FROM PART A WITH THE REMAINDER OF SECTION II SPECIFIC RECEPTOR BINDING METHODOLOGIES SUBSECTION II B DEALS WITH RECEPTORS FOR AMINO ACIDS AND NEUROPEPTIDES AND COVERS AREAS INCLUDING GABA GLYCINE CARNOSINE OPIATES BOMBESIN CCK TRH AND SUBSTANCE P AMINO ACIDS PROBABLY REPRESENT THE MAJORITY OF BRAIN NEUROTRANSMITTER SUBSTANCES AT LEAST RELATIVE TO THE AMINES AND ACETYLCHOLINE ALTHOUGH

WITH THE EXCEPTION OF GABA THE AMINO ACIDS REMAIN RELATIVELY UNCHARACTERIZED IN BRAIN THEIR FURTHER STUDY SHOULD RECEIVE HIGH PRIORITY

Brain Receptor Methodologies

2013-10-22

CONTAINS PAPERS THAT APPEAL TO A BROAD AND GLOBAL READERSHIP IN ALL FIELDS OF ECONOMICS

The Economic Journal

1895

THIS BOOK OFFERS A SYSTEMATIC INTRODUCTION TO RECENT ACHIEVEMENTS AND DEVELOPMENT IN RESEARCH ON THE STRUCTURE OF FINITE NON SIMPLE GROUPS THE THEORY OF CLASSES OF GROUPS AND THEIR APPLICATIONS IN PARTICULAR THE RELATED SYSTEMATIC THEORIES ARE CONSIDERED AND SOME NEW APPROACHES AND RESEARCH METHODS ARE DESCRIBED E G THE F HYPERCENTER OF GROUPS X PERMUTABLE SUBGROUPS SUBGROUP FUNCTORS GENERALIZED SUPPLEMENTARY SUBGROUPS QUASI F GROUP AND F COHYPERCENTER FOR FITTING CLASSES AT THE END OF EACH CHAPTER WE PROVIDE RELEVANT SUPPLEMENTARY INFORMATION AND INTRODUCE READERS TO SELECTED OPEN PROBLEMS

Structure Theory for Canonical Classes of Finite Groups

2015-04-23

THE AUTHORS GIVE A DETAILED DESCRIPTION OF THE TORSORS THAT CORRESPOND TO MULTILOOP ALGEBRAS THESE ALGEBRAS ARE TWISTED FORMS OF SIMPLE LIE ALGEBRAS EXTENDED OVER LAURENT POLYNOMIAL RINGS THEY PLAY A CRUCIAL ROLE IN THE CONSTRUCTION OF EXTENDED AFFINE LIE ALGEBRAS WHICH ARE HIGHER NULLITY ANALOGUES OF THE AFFINE KAC MOODY LIE ALGEBRAS THE TORSOR APPROACH THAT THE AUTHORS TAKE DRAWS HEAVILY FROM THE THEORY OF REDUCTIVE GROUP SCHEMES DEVELOPED BY M DEMAZURE AND A GROTHENDIECK IT ALSO ALLOWS THE AUTHORS TO FIND A BRIDGE BETWEEN MULTILOOP ALGEBRAS AND THE WORK OF F BRUHAT AND J TITS ON REDUCTIVE GROUPS OVER COMPLETE LOCAL FIELDS

The Encyclopaedia Britannica ...

1898

MATHEMATICAL PROGRAMMING HAS KNOW A SPECTACULAR DIVERSIFICATION IN THE LAST FEW DECADES THIS PROCESS HAS HAPPENED BOTH AT THE LEVEL OF MATHEMATICAL RESEARCH AND AT THE LEVEL OF THE APPLICATIONS GENERATED BY THE SOLUTION METHODS THAT WERE CREATED TO WRITE A MONOGRAPH DEDICATED TO A CERTAIN DOMAIN OF MATHEMATICAL PROGRAMMING IS UNDER SUCH CIRCUMSTANCES ESPECIALLY DIFFICULT IN THE PRESENT MONOGRAPH WE OPT FOR THE DOMAIN OF FRACTIONAL PROGRAMMING INTEREST OF THIS SUBJECT WAS GENERATED BY THE FACT THAT VARIOUS OPTIMIZATION PROBLEMS FROM ENGINEERING AND ECONOMICS CONSIDER THE MINIMIZATION OF A RATIO BETWEEN PHYSICAL AND OR ECONOMICAL FUNCTIONS FOR EXAMPLE COST TIME COST VOLUME COST PROFIT OR OTHER QUANTITIES THAT MEASURE THE EFFICIENCY OF A SYSTEM FOR EXAMPLE THE PRODUCTIVITY OF INDUSTRIAL SYSTEMS DEFINED AS THE RATIO BETWEEN THE REALIZED SERVICES IN A SYSTEM WITHIN A GIVEN PERIOD OF TIME AND THE UTILIZED RESOURCES IS USED AS ONE OF THE BEST INDICATORS OF THE QUALITY OF THEIR OPERATION SUCH PROBLEMS WHERE THE OBJECTIVE FUNCTION APPEARS AS A RATIO OF FUNCTIONS CONSTITUTE FRACTIONAL PROGRAMMING PROBLEM DUE TO ITS IMPORTANCE IN MODELING VARIOUS DECISION PROCESSES IN MANAGEMENT SCIENCE OPERATIONAL RESEARCH AND ECONOMICS AND ALSO DUE TO ITS FREQUENT APPEARANCE IN OTHER PROBLEMS THAT ARE NOT NECESSARILY ECONOMICAL SUCH AS INFORMATION THEORY NUMERICAL ANALYSIS STOCHASTIC PROGRAMMING DECOMPOSITION ALGORITHMS FOR LARGE LINEAR SYSTEMS ETC THE FRACTIONAL PROGRAMMING METHOD HAS RECEIVED PARTICULAR ATTENTION IN THE LAST THREE DECADES

Torsors, Reductive Group Schemes and Extended Affine Lie Algebras

2013-10-23

REPRESENTATION THEORY AND MORE GENERALLY LIE THEORY HAS PLAYED A VERY IMPORTANT ROLE IN MANY OF THE RECENT DEVELOPMENTS OF MATHEMATICS AND IN THE INTERACTION OF MATHEMATICS WITH PHYSICS IN AUGUST SEPTEMBER 1989 A WORKSHOP THIRD WORKSHOP ON REPRESENTATION THEORY OF LIE GROUPS AND ITS APPLICATIONS WAS HELD IN THE ENVIRONS OF CÓRDOBA ARGENTINA TO PRESENT EXPOSITIONS OF IMPORTANT RECENT DEVELOPMENTS IN THE FIELD THAT WOULD BE ACCESSIBLE TO GRADUATE STUDENTS AND RESEARCHERS IN RELATED FIELDS THIS VOLUME CONTAINS ARTICLES THAT ARE EDITED VERSIONS OF THE LECTURES AND SHORT COURSES GIVEN

AT THE WORKSHOP WITHIN REPRESENTATION THEORY ONE OF THE MAIN OPEN PROBLEMS IS TO DETERMINE THE UNITARY DUAL OF A REAL REDUCTIVE GROUP ALTHOUGH THIS PROB LEM IS AS YET UNSOLVED THE RECENT WORK OF BARBASCH VOGAN ARTHUR AS WELL AS OTHERS HAS SHED NEW LIGHT ON THE STRUCTURE OF THE PROBLEM THE ARTICLE OF D VOGAN PRESENTS AN EXPOSITION OF SOME ASPECTS OF THIS PROB LEM EMPHASIZING AN EXTENSION OF THE ORBIT METHOD OF KOSTANT KIRILLOV SEVERAL EXAMPLES ARE GIVEN THAT EXPLAIN WHY THE ORBIT METHOD SHOULD BE EXTENDED AND HOW THIS EXTENSION SHOULD BE IMPLEMENTED

Fractional Programming

2012-12-06

ACCORDING TO SYLLABUS FOR EXAM UP TO YEAR 2020 NEW QUESTIONS FROM TOP SCHOOLS COLLEGES SINCE 2008 2017 EXPOSES SURPRISE TRICK QUESTIONS COMPLETE ANSWER KEYS MOST EFFICIENT METHOD OF LEARNING HENCE SAVES TIME ARRANGE FROM EASY TO HARD BOTH BY TOPICS AND QUESTION TYPES TO FACILITATE EASY ABSORPTION FULL SET OF STEP BY STEP SOLUTION APPROACHES AVAILABLE SEPARATELY ADVANCED TRADE BOOK COMPLETE AND CONCISE EBOOK EDITIONS AVAILABLE ALSO SUITABLE FOR CAMBRIDGE GCE AL H1 H2 CAMBRIDGE INTERNATIONAL A AS LEVEL BOOKS AVAILABLE FOR OTHER SUBJECTS INCLUDING PHYSICS CHEMISTRY BIOLOGY MATHEMATICS ECONOMICS ENGLISH PRIMARY LEVEL SECONDARY LEVEL GCE O LEVEL GCE A LEVEL IGCSE CAMBRIDGE A LEVEL HONG KONG DSE VISIT YELLOWREEF COM FOR SAMPLE CHAPTERS AND MORE

New Developments in Lie Theory and Their Applications

2012-12-06

SURGERY THEORY THE BASIS FOR THE CLASSIFICATION THEORY OF MANIFOLDS IS NOW ABOUT FORTY YEARS OLD THERE HAVE BEEN SOME EXTRAORDINARY ACCOMPLISHMENTS IN THAT TIME WHICH HAVE LED TO ENORMOUSLY VARIED INTERACTIONS WITH ALGEBRA ANALYSIS AND GEOMETRY WORKERS IN MANY OF THESE AREAS HAVE OFTEN LAMENTED THE LACK OF A SINGLE SOURCE THAT SURVEYS SURGERY THEORY AND ITS APPLICATIONS INDEED NO ONE PERSON COULD WRITE SUCH A SURVEY THE SIXTIETH BIRTHDAY OF C T C WALL ONE OF THE LEADERS OF THE FOUNDING GENERATION OF SURGERY THEORY PROVIDED AN OPPORTUNITY TO RECTIFY THE SITUATION AND PRODUCE A COMPREHENSIVE BOOK ON THE SUBJECT EXPERTS HAVE WRITTEN STATE OF THE ART REPORTS THAT WILL BE OF BROAD INTEREST TO ALL THOSE INTERESTED IN TOPOLOGY NOT ONLY GRADUATE STUDENTS AND MATHEMATICIANS BUT MATHEMATICAL PHYSICISTS AS WELL CONTRIBUTORS INCLUDE J MILNOR S NOVIKOV W BROWDER T LANCE E BROWN M KRECK J KLEIN M DAVIS J DAVIS I HAMBLETON L TAYLOR C STARK E PEDERSEN W MIO J LEVINE K ORR J ROE J MILGRAM AND C THOMAS

A-level Mathematics Challenging Drill Questions (Yellowreef)

2019-05-05

FIRST PUBLISHED IN 1966 HERE IS PRESENTED A COMPREHENSIVE OVERVIEW OF ONE OF THE MOST ELUSIVE SCIENTIFIC SPECULATIONS BY THE PRE EMINENT GENIUS OF THE 20TH CENTURY THE THEORY IS VIEWED BY SOME SCIENTISTS WITH DEEP SUSPICION BY OTHERS WITH OPTIMISM BUT ALL AGREE THAT IT REPRESENTS AN EXTREME CHALLENGE AS THE AUTHOR HERSELF AFFIRMS THIS WORK IS NOT INTENDED TO BE A COMPLETE TREATISE OR DIDACTIC EXPOSITION OF THE THEORY OF UNIFIED FIELDS BUT RATHER A TOOL FOR FURTHER STUDY BOTH BY STUDENTS AND PROFESSIONAL PHYSICISTS DEALING WITH ALL THE MAJOR AREAS OF RESEARCH WHICH TOGETHER COMPRISE THE DEVELOPMENT OF A WORKING MODEL THE AUTHOR RANGES OVER CONSERVATION EQUATIONS VARIATIONAL PRINCIPLES SOLUTIONS OF SPHERICAL SYMMETRY AND TREATS A WIDE SELECTION OF EINSTEIN S OWN EQUATIONS THE FINAL CHAPTER INDICATES PROBLEMS ASSOCIATED WITH THE UNIFIED FIELD THEORY IN PARTICULAR THE ENERGY MOMENTUM TENSOR AND GEODESICS

Surveys on Surgery Theory (AM-145), Volume 1

2014-09-08

CUSTOMERS WHO PLACE A STANDING ORDER FOR THE TESTS IN PRINT SERIES OR THE MENTAL MEASUREMENTS YEARBOOK SERIES WILL RECEIVE A 10 DISCOUNT ON EVERY VOLUME TO PLACE YOUR STANDING ORDER PLEASE CALL 1 800 848 6224 IN THE U S OR 919 966 7449 OUTSIDE THE U S THE MOST WIDELY ACCLAIMED REFERENCE SERIES IN EDUCATION AND PSYCHOLOGY THE MENTAL MEASUREMENTS YEARBOOKS ARE DESIGNED TO ASSIST PROFESSIONALS IN SELECTING AND USING STANDARDIZED TESTS THE SERIES INITIATED IN 1938 PROVIDES FACTUAL INFORMATION CRITICAL REVIEWS AND COMPREHENSIVE BIBLIOGRAPHIC REFERENCES ON THE CONSTRUCTION USE AND VALIDITY OF ALL TESTS PUBLISHED IN ENGLISH THE OBJECTIVES OF THE MENTAL MEASUREMENTS YEARBOOKS HAVE REMAINED ESSENTIALLY THE SAME SINCE THE PUBLICATION OF THE SERIES THESE OBJECTIVES INCLUDE PROVISION TO TEST USERS OF FACTUAL INFORMATION ON ALL KNOWN TESTS PUBLISHED AS SEPARATES IN THE ENGLISH SPEAKING COUNTRIES OF THE WORLD CANDIDLY CRITICAL TEST REVIEWS WRITTEN FOR THE MMY SERIES BY QUALIFIED PROFESSIONAL PEOPLE REPRESENTING A VARIETY OF VIEWPOINTS UNIQUE PUBLICATION OF EACH VOLUME IN THE MMY SERIES WITH NEW VOLUMES SUPPLEMENTING RATHER THAN SUPPLANTING PREVIOUS SERIES VOLUMES EACH YEARBOOK IS A UNIQUE PUBLICATION SUPPLEMENTING RATHER THAN SUPPLANTING THE PREVIOUS VOLUMES

Einstein's Theory of Unified Fields

2014-07-17

STOCHASTIC DYNAMICS FOR SYSTEMS BIOLOGY IS ONE OF THE FIRST BOOKS TO PROVIDE A SYSTEMATIC STUDY OF THE MANY STOCHASTIC MODELS USED IN SYSTEMS BIOLOGY THE BOOK SHOWS HOW THE MATHEMATICAL MODELS ARE USED AS TECHNICAL TOOLS FOR SIMULATING BIOLOGICAL PROCESSES AND HOW THE MODELS LEAD TO CONCEPTUAL INSIGHTS ON THE FUNCTIONING OF THE CELLULAR PROCESSING

The Tenth Mental Measurements Yearbook

1989

A GRADUATE COURSE TEXT WRITTEN FOR READERS FAMILIAR WITH MEASURE THEORETIC PROBABILITY AND DISCRETE TIME PROCESSES WISHING TO EXPLORE STOCHASTIC PROCESSES IN CONTINUOUS TIME THE VEHICLE CHOSEN FOR THIS EXPOSITION IS BROWNIAN MOTION WHICH IS PRESENTED AS THE CANONICAL EXAMPLE OF BOTH A MARTINGALE AND A MARKOV PROCESS WITH CONTINUOUS PATHS IN THIS CONTEXT THE THEORY OF STOCHASTIC INTEGRATION AND STOCHASTIC CALCULUS IS DEVELOPED ILLUSTRATED BY RESULTS CONCERNING REPRESENTATIONS OF MARTINGALES AND CHANGE OF MEASURE ON WIENER SPACE WHICH IN TURN PERMIT A PRESENTATION OF RECENT ADVANCES IN FINANCIAL ECONOMICS THE BOOK CONTAINS A DETAILED DISCUSSION OF WEAK AND STRONG SOLUTIONS OF STOCHASTIC DIFFERENTIAL EQUATIONS AND A STUDY OF LOCAL TIME FOR SEMIMARTINGALES WITH SPECIAL EMPHASIS ON THE THEORY OF BROWNIAN LOCAL TIME THE WHOLE IS BACKED BY A LARGE NUMBER OF PROBLEMS AND EXERCISES

Stochastic Dynamics for Systems Biology

2016-04-19

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 13TH ANNUAL INTERNATIONAL SYMPOSIUM ON ALGORITHMS AND COMPUTATION ISAAC 2002 HELD IN VANCOUVER BC CANADA IN NOVEMBER 2002 THE 54 REVISED FULL PAPERS PRESENTED TOGETHER WITH 3 INVITED CONTRIBUTIONS WERE CAREFULLY REVIEWED AND SELECTED FROM CLOSE TO 160 SUBMISSIONS THE PAPERS COVER ALL RELEVANT TOPICS IN ALGORITHMICS AND COMPUTATION IN PARTICULAR COMPUTATIONAL GEOMETRY ALGORITHMS AND DATA STRUCTURES APPROXIMATION ALGORITHMS RANDOMIZED ALGORITHMS GRAPH DRAWING AND GRAPH ALGORITHMS COMBINATORIAL OPTIMIZATION COMPUTATIONAL BIOLOGY COMPUTATIONAL FINANCE CRYPTOGRAPHY AND PARALLEL AND DISTRIBUTEDD ALGORITHMS

Brownian Motion and Stochastic Calculus

2014-03-27

THIS BOOK CONSTITUTES THE REFEREED PROCEEDINGS OF THE 33RD ANNUAL EUROPEAN CONFERENCE ON INFORMATION RETRIEVAL RESEARCH ECIR 2011 HELD IN DUBLIN IRELAND IN APRIL 2010 THE 45 REVISED FULL PAPERS PRESENTED TOGETHER WITH 24 POSTER PAPERS 17 SHORT PAPERS AND 6 TOOL DEMONSTRATIONS WERE CAREFULLY REVIEWED AND SELECTED FROM 223 FULL RESEARCH PAPER SUBMISSIONS AND 64 POSTER DEMO SUBMISSIONS THE PAPERS ARE ORGANIZED IN TOPICAL SECTIONS ON TEXT CATEGORIZATION RECOMMENDER SYSTEMS IR IR EVALUATION IR FOR SOCIAL NETWORKS CROSS LANGUAGE IR IR THEORY MULTIMEDIA IR IR APPLICATIONS INTERACTIVE IR AND QUESTION ANSWERING NLP

Algorithms and Computation

2003-08-02

ALTHOUGH THE ANALYSIS OF SCATTERING FOR CLOSED BODIES OF SIMPLE GEOMETRIC SHAPE IS WELL DEVELOPED STRUCTURES WITH EDGES CAVITIES OR INCLUSIONS HAVE SEEMED UNTIL NOW INTRACTABLE TO ANALYTICAL METHODS THIS TWO VOLUME SET DESCRIBES A BREAKTHROUGH IN ANALYTICAL TECHNIQUES FOR ACCURATELY DETERMINING DIFFRACTION FROM CLASSES OF CANONICAL SCATTERERS

Advances in Information Retrieval

2011-04-12

FOR MOST OF THE BOOK THE ONLY PREREQUISITES ARE THE BASIC FACTS OF ALGEBRAIC GEOMETRY AND NUMBER THEORY BOOK JACKET

Canonical Problems in Scattering and Potential Theory Part II

2002-04-29

THIS UPDATED VERSION COVERS THE CONSIDERABLE WORK ON RESEARCH AND DEVELOPMENT TO DETERMINE ELASTIC PROPERTIES OF MATERIALS UNDERTAKEN SINCE THE FIRST EDITION OF 1987 IT EMPHASISES 3 DIMENSIONAL ELASTICITY CONCISELY COVERING THIS IMPORTANT SUBJECT STUDIED IN MOST UNIVERSITIES BY FILLING THE GAP BETWEEN A MATHEMATICAL AND THE ENGINEERING APPROACH BASED ON THE AUTHOR S EXTENSIVE RESEARCH EXPERIENCE IT REFLECTS THE NEED FOR MORE SOPHISTICATED METHODS OF ELASTIC ANALYSIS THAN IS USUALLY TAUGHT AT UNDERGRADUATE LEVEL THE SUBJECT IS PRESENTED AT THE LEVEL OF SOPHISTICATION FOR ENGINEERS WITH MATHEMATICAL KNOWLEDGE AND THOSE FAMILIAR WITH MATRICES READERS WARY OF TENSOR NOTATION WILL FIND HELP IN THE OPENING CHAPTER AS HIS TEXT PROGRESSES THE AUTHOR USES CARTESIAN TENSORS TO DEVELOP THE THEORY OF THERMOELASTICITY THE THEORY OF GENERALISED PLANE STRESS AND COMPLEX VARIABLE ANALYSIS RELATIVELY INACCESSIBLE MATERIAL WITH IMPORTANT APPLICATIONS RECEIVES SPECIAL ATTENTION E G RUSSIAN WORK ON ANISOTROPIC MATERIALS THE TECHNIQUE OF THERMAL IMAGING OF STRAIN AND AN ANALYSIS OF THE SAN ANDREAS FAULT TENSOR EQUATIONS ARE GIVEN IN STRAIGHTFORWARD NOTATION TO PROVIDE A PHYSICAL GROUNDING AND ASSIST COMPREHENSION AND THERE ARE USEFUL TABLES FOR THE SOLUTION OF PROBLEMS COVERS THE CONSIDERABLE WORK ON RESEARCH AND DEVELOPMENT TO DETERMINE ELASTIC PROPERTIES OF MATERIALS UNDERTAKEN SINCE THE FIRST EDITION OF 1987 EMPHASISES 3 DIMENSIONAL ELASTICITY AND FILLS THE GAP BETWEEN A MATHEMATICAL AND ENGINEERING APPROACH USES CARTESIAN TENSORS TO DEVELOP THE THEORY OF THERMOELASTICITY THE THEORY OF GENERALISED PLANE STRESS AND COMPLEX VARIABLE ANALYSIS

Arithmetic Differential Equations

2005

A COLLECTION OF PROBLEMS ON MATHEMATICAL PHYSICS IS A TRANSLATION FROM THE RUSSIAN AND DEALS WITH PROBLEMS AND EQUATIONS OF MATHEMATICAL PHYSICS THE BOOK CONTAINS PROBLEMS AND SOLUTIONS THE BOOK DISCUSSES PROBLEMS ON THE DERIVATION OF EQUATIONS AND BOUNDARY CONDITION THESE PROBLEMS ARE ARRANGED ON THE TYPE AND REDUCTION TO CANONICAL FORM OF EQUATIONS IN TWO OR MORE INDEPENDENT VARIABLES THE EQUATIONS OF HYPERBOLIC TYPE CONCERNS DERIVE FROM PROBLEMS ON VIBRATIONS OF CONTINUOUS MEDIA AND ON ELECTROMAGNETIC OSCILLATIONS THE BOOK CONSIDERS THE STATEMENT AND SOLUTIONS OF BOUNDARY VALUE PROBLEMS PERTAINING TO EQUATIONS OF PARABOLIC TYPES WHEN THE PHYSICAL PROCESSES ARE DESCRIBED BY FUNCTIONS OF TWO THREE OR FOUR INDEPENDENT VARIABLES SUCH AS SPATIAL COORDINATES OR TIME THE BOOK THEN DISCUSSES DYNAMIC PROBLEMS PERTAINING TO THE MECHANICS OF CONTINUOUS MEDIA AND PROBLEMS ON ELECTRODYNAMICS THE TEXT ALSO DISCUSSES HYPERBOLIC AND ELLIPTIC TYPES OF EQUATIONS THE BOOK IS INTENDED FOR STUDENTS IN ADVANCED MATHEMATICS AND PHYSICS AS WELL AS FOR ENGINEERS AND WORKERS IN RESEARCH INSTITUTIONS

Applied Elasticity

2002-12-30

LOCALLY COMPUTABLE NC0 FUNCTIONS ARE SIMPLE FUNCTIONS FOR WHICH EVERY BIT OF THE OUTPUT CAN BE COMPUTED BY READING A SMALL NUMBER OF BITS OF THEIR INPUT THE STUDY OF LOCALLY COMPUTABLE CRYPTOGRAPHY ATTEMPTS TO CONSTRUCT CRYPTOGRAPHIC FUNCTIONS THAT ACHIEVE THIS STRONG NOTION OF SIMPLICITY AND SIMULTANEOUSLY PROVIDE A HIGH LEVEL OF SECURITY SUCH CONSTRUCTIONS ARE HIGHLY PARALLELIZABLE AND THEY CAN BE REALIZED BY BOOLEAN CIRCUITS OF CONSTANT DEPTH THIS BOOK ESTABLISHES FOR THE FIRST TIME THE POSSIBILITY OF LOCAL IMPLEMENTATIONS FOR MANY BASIC CRYPTOGRAPHIC PRIMITIVES SUCH AS ONE WAY FUNCTIONS PSEUDORANDOM GENERATORS ENCRYPTION SCHEMES AND DIGITAL SIGNATURES IT ALSO EXTENDS THESE RESULTS TO OTHER STRONGER NOTIONS OF LOCALITY AND ADDRESSES A WIDE VARIETY OF FUNDAMENTAL QUESTIONS ABOUT LOCAL CRYPTOGRAPHY THE AUTHOR S RELATED THESIS WAS HONORABLY MENTIONED RUNNER UP FOR THE ACM DISSERTATION AWARD IN 2007 AND THIS BOOK INCLUDES SOME EXPANDED SECTIONS AND PROOFS AND NOTES ON RECENT DEVELOPMENTS THE BOOK ASSUMES ONLY A MINIMAL BACKGROUND IN COMPUTATIONAL COMPLEXITY AND CRYPTOGRAPHY AND IS THEREFORE SUITABLE FOR GRADUATE STUDENTS OR RESEARCHERS IN RELATED AREAS WHO ARE INTERESTED IN PARALLEL CRYPTOGRAPHY IT ALSO INTRODUCES GENERAL TECHNIQUES AND TOOLS WHICH ARE LIKELY TO INTEREST EXPERTS IN THE AREA

A Collection of Problems on Mathematical Physics

2013-10-22

THIS BOOK IS INTENDED FOR PHYSICISTS AND CHEMISTS WHO NEED TO UNDERSTAND THE THEORY OF ATOMIC AND MOLECULAR STRUCTURE AND PROCESSES AND WHO WISH TO APPLY THE THEORY TO PRACTICAL PROBLEMS AS FAR AS PRACTICABLE THE BOOK PROVIDES A SELF CONTAINED ACCOUNT OF THE THEORY OF RELATIVISTIC ATOMIC AND MOLECULAR STRUCTURE BASED ON THE ACCEPTED FORMALISM OF BOUND STATE QUANTUM ELECTRODYNAMICS THE AUTHOR WAS ELECTED A FELLOW OF THE ROYAL SOCIETY OF LONDON IN 1992

Cryptography in Constant Parallel Time

2013-12-19

UPON RAMANUJANS DEATH IN 1920 G H HARDY STRONGLY URGED THAT RAMANUJANS NOTEBOOKS BE PUBLISHED AND EDITED IN 1957 THE TATA INSTITUTE OF FUNDAMENTAL RESEARCH IN BOMBAY FINALLY PUBLISHED A PHOTOSTAT EDITION OF THE NOTEBOOKS BUT NO EDITING WAS UNDERTAKEN IN 1977 BERNDT BEGAN THE TASK OF EDITING RAMANUJANS NOTEBOOKS PROOFS ARE PROVIDED TO THEOREMS NOT YET PROVEN IN PREVIOUS LITERATURE AND MANY RESULTS ARE SO STARTLING AS TO BE UNIQUE

Relativistic Quantum Theory of Atoms and Molecules

2007-04-15

THIS COMPREHENSIVE AND ACCESSIBLE TEXTBOOK INTRODUCES STUDENTS TO THE BASICS OF MODERN SIGNAL PROCESSING TECHNIQUES

Ramanujan's Notebooks

2012-12-06

THIS VOLUME DISCUSSES VARIOUS PERSPECTIVES OF THE THEORY OF AUTOMORPHIC FORMS DRAWN FROM THE AUTHOR S NOTES FROM A RUTGERS UNIVERSITY GRADUATE COURSE IN ADDITION TO DETAILED AND OFTEN NONSTANDARD TREATMENT OF FAMILIAR THEORETICAL TOPICS THE AUTHOR ALSO GIVES SPECIAL ATTENTION TO SUCH SUBJECTS AS THETA FUNCTIONS AND REPRESENTATIVES BY QUADRATIC FORMS ANNOTATION COPYRIGHTED BY BOOK NEWS INC PORTLAND OR

Foundations of Signal Processing

2014-09-04

IN RECENT YEARS ROUGH SET THEORY HAS ATTRACTED THE ATTENTION OF MANY RESEARCHERS AND PRACTITIONERS ALL OVER THE WORLD WHO HAVE CONTRIBUTED ESSENTIALLY TO ITS DEVELOPMENT AND APPLICATIONS WEAREOBSERVINGAGROWINGRESEARCHINTERESTINTHEFOUNDATIONSOFROUGHSETS INCLUDING THE VARIOUS LOGICAL MATHEMATICAL AND PHILOSOPHICAL ASPECTS OF ROUGH SETS SOME RELATIONSHIPS HAVE ALREADY BEEN ESTABLISHED BETWEEN ROUGH SETS AND OTHER APPROACHES AND ALSO WITH A WIDE RANGE OF HYBRID SYSTEMS AS A RESULT ROUGH SETS ARE LINKED WITH DECISION SYSTEM MODELING AND ANALYSIS OF COMPLEX SYSTEMS FUZZY SETS NEURAL NETWORKS EVOLUTIONARY COMPUTING DATA MINING AND KNOWLEDGE DISCOVERY PATTERN RECOGNITION MACHINE LEARNING AND APPROXIMATE REASONING IN PARTICULAR ROUGH SETS ARE USED IN PROBABILISTIC REASONING GRANULAR COMPUTING INCLUDING INFORMATION GRANULE CALCULI BASED ON ROUGH MEREOLOGY INTELLIGENT CONTROL INTELLIGENT AGENT MODELING IDENTI CATION OF AUTONOMOUS S TEMS AND PROCESS SPECI CATION METHODS BASED ON ROUGH SET THEORY ALONE OR IN COMBINATION WITH OTHER PROACHESHAVEBEENDISCOVEREDWITH AWIDE RANGEOFAPPLICATIONSINSUCHAREASAS ACOUSTICS BIOINFORMATICS BUSINESS AND NANCE CHEMISTRY COMPUTER ENGINEERING E G DATA COMPRESSION DIGITAL IMAGE PROCESSING DIGITAL SIGNAL PROCESSING P ALLEL AND DISTRIBUTED COMPUTER SYSTEMS SENSOR FUSION FRACTAL ENGINEERING DE SION ANALYSIS AND SYSTEMS ECONOMICS ELECTRICAL ENGINEERING E G CONTROL SIGNAL ANALYSIS POWER SYSTEMS ENVIRONMENTAL STUDIES INFORMATICS MEDICINE MOLE LAR BIOLOGY MUSICOLOGY NEUROLOGY ROBOTICS SOCIAL SCIENCE SOFTWARE ENGINEERING SPATIAL VISUALIZATION ENGINEERING AND MINING

Topics in Classical Automorphic Forms

1997

A PRACTICAL INTRODUCTION TO THE DEVELOPMENT OF PROOFS AND CERTIFIED PROGRAMS USING COQ AN INVALUABLE TOOL FOR RESEARCHERS STUDENTS AND ENGINEERS INTERESTED IN FORMAL METHODS AND THE DEVELOPMENT OF ZERO FAULT SOFTWARE

Rough Sets and Current Trends in Computing

2004-06-16

B SPLINES ARE FUNDAMENTAL TO APPROXIMATION AND DATA FITTING GEOMETRIC MODELING AUTOMATED MANUFACTURING COMPUTER GRAPHICS AND NUMERICAL SIMULATION WITH AN EMPHASIS ON KEY RESULTS AND METHODS THAT ARE MOST WIDELY USED IN PRACTICE THIS TEXTBOOK PROVIDES A UNIFIED INTRODUCTION TO THE BASIC COMPONENTS OF B SPLINE THEORY APPROXIMATION METHODS MATHEMATICS MODELING TECHNIQUES ENGINEERING AND GEOMETRIC ALGORITHMS COMPUTER SCIENCE A SUPPLEMENTAL SITE WILL PROVIDE A COLLECTION OF PROBLEMS SOME WITH SOLUTIONS SLIDES FOR USE IN LECTURES AND PROGRAMS WITH DEMOS

Interactive Theorem Proving and Program Development

2013-03-14

MATHEMATICS FOR ECONOMISTS WITH APPLICATIONS PROVIDES DETAILED COVERAGE OF THE MATHEMATICAL TECHNIQUES ESSENTIAL FOR UNDERGRADUATE AND INTRODUCTORY GRADUATE WORK IN ECONOMICS BUSINESS AND FINANCE BEGINNING WITH LINEAR ALGEBRA AND MATRIX THEORY THE BOOK DEVELOPS THE TECHNIQUES OF UNIVARIATE AND MULTIVARIATE CALCULUS USED IN ECONOMICS PROCEEDING TO DISCUSS THE THEORY OF OPTIMIZATION IN DETAIL INTEGRATION DIFFERENTIAL AND DIFFERENCE EQUATIONS ARE CONSIDERED IN SUBSEQUENT CHAPTERS UNIQUELY THE BOOK ALSO FEATURES A DISCUSSION OF STATISTICS AND PROBABILITY INCLUDING A STUDY OF THE KEY DISTRIBUTIONS AND THEIR ROLE IN HYPOTHESIS TESTING THROUGHOUT THE TEXT LARGE NUMBERS OF NEW AND INSIGHTFUL EXAMPLES AND AN EXTENSIVE USE OF GRAPHS EXPLAIN AND MOTIVATE THE MATERIAL EACH CHAPTER DEVELOPS FROM AN ELEMENTARY LEVEL AND BUILDS TO MORE ADVANCED TOPICS PROVIDING LOGICAL PROGRESSION FOR THE STUDENT AND ENABLING INSTRUCTORS TO PRESCRIBE MATERIAL TO THE REQUIRED LEVEL OF THE COURSE WITH COVERAGE SUBSTANTIAL IN DEPTH AS WELL AS BREADTH AND INCLUDING A COMPANION WEBSITE AT ROUTLEDGE COM CW BERGIN CONTAINING EXERCISES RELATED TO THE WORKED EXAMPLES FROM EACH CHAPTER OF THE BOOK MATHEMATICS FOR ECONOMISTS WITH APPLICATIONS CONTAINS EVERYTHING NEEDED TO UNDERSTAND AND APPLY THE MATHEMATICAL METHODS AND PRACTICES FUNDAMENTAL TO THE STUDY OF ECONOMICS

Approximation and Modeling with B-Splines

2015-07-01

THIS IS A BOOK ABOUT PHYSICS WRITTEN FOR MATHEMATICIANS THE READERS WE HAVE IN MIND CAN BE ROUGHLY DESCRIBED AS THOSE WHO I ARE MATHEMATICS GRADUATE STUDENTS WITH SOME KNOWLEDGE OF GLOBAL DIFFERENTIAL GEOMETRY 2 HAVE HAD THE EQUIVALENT OF FRESHMAN PHYSICS AND FIND POPULAR ACCOUNTS OF ASTROPHYSICS AND COSMOLOGY INTERESTING 3 APPRECIATE MATHEMATICAL ELARITY BUT ARE WILLING TO ACCEPT PHYSICAL MOTIVA TIONS FOR THE MATHEMATICS IN PLACE OF MATHEMATICAL ONES 4 ARE WILLING TO SPEND TIME AND EFFORT MASTERING CERTAIN TECHNICAL DETAILS SUCH AS THOSE IN SECTION 1 1 EACH BOOK DISAPPOINTS SO ME READERS THIS ONE WILL DISAPPOINT 1 PHYSICISTS WHO WANT TO USE THIS BOOK AS A FIRST COURSE ON DIFFERENTIAL GEOMETRY 2 MATHEMATICIANS WHO THINK LORENTZIAN MANIFOLDS ARE WHOLLY SIMILAR TO RIEMANNIAN ONES OR THAT GIVEN A SUFFICIENTLY GOOD MATHEMATICAL BACK GROUND THE ESSENTIALS OF A SUBJECT IKE COSMOLOGY CAN BE LEARNED WITHOUT SO ME HARD WORK ON BORING DETAIIS 3 THOSE WHO BELIEVE VAGUE PHILOSOPHICAL ARGUMENTS HAVE MORE THAN HISTORICAL AND HEURISTIC SIGNIFICANCE THAT GENERAL RELATIVITY SHOULD SOMEHOW BE PROVED OR THAT AXIOMATIZATION OF THIS SUBJECT IS USEFUL 4 THOSE WHO WANT AN ENCYCLOPEDIC TREATMENT THE BOOKS BY HAWKING ELLIS 1 PENROSE 1 WEINBERG 1 AND MISNER THORNE WHEELER I GO FURTHER INTO THE SUBJECT THAN WE DO SEE ALSO THE SURVEY ARTICLE SACHS WU 1 5 MATHEMATICIANS WHO WANT TO LEARN QUANTUM PHYSICS OR UNIFIED FIEID THEORY UNFORTUNATEIY QUANTUM PHYSICS TEXTS ALL SEEM EITHER TO BE FOR PHYSICISTS OR MERELY CONCERNED WITH FORMAI MATHEMATICS

Mathematics for Economists with Applications

2015-01-09

THIS BOOK IS CONCERNED WITH THE PROCESSING OF SIGNALS THAT HAVE BEEN SAM PLED AND DIGITIZED THE FUNDAMENTAL THEORY BEHIND DIGITAL SIGNAL PROCESS ING HAS BEEN IN EXISTENCE FOR DECADES AND HAS EXTENSIVE APPLICATIONS TO THE FIELDS OF SPEECH AND DATA COMMUNICATIONS BIOMEDICAL ENGINEERING ACOUS TICS SONAR RADAR SEISMOLOGY OIL EXPLORATION INSTRUMENTATION AND AUDIO SIGNAL PROCESSING TO NAME BUT A FEW 87 THE TERM DIGITAL SIGNAL PROCESSING IN ITS BROADEST SENSE COULD APPLY TO ANY OPERATION CARRIED OUT ON A FINITE SET OF MEASUREMENTS FOR WHATEVER PURPOSE A BOOK ON SIGNAL PROCESSING WOULD USUALLY CONTAIN DETAILED DE SCRIPTIONS OF THE STANDARD MATHEMATICAL MACHINERY OFTEN USED TO DESCRIBE SIGNALS IT WOULD ALSO MOTIVATE AN APPROACH TO REAL WORLD PROBLEMS BASED ON CONCEPTS AND RESULTS DEVELOPED IN LINEAR SYSTEMS THEORY THAT MAKE USE OF SOME RATHER INTERESTING PROPERTIES OF THE TIME AND FREQUENCY DOMAIN REPRESENTATIONS OF SIGNALS WHILE THIS BOOK ASSUMES SOME FAMILIARITY WITH TRADITIONAL METHODS THE EMPHASIS IS ALTOGETHER QUITE DIFFERENT THE AIM IS TO DESCRIBE GENERAL METHODS FOR CARRYING OUT OPTIMAL SIGNAL PROCESSING

General Relativity for Mathematicians

2012-12-06

AMONG THE TRADITIONAL PURPOSES OF SUCH AN INTRODUCTORY COURSE IS THE TRAINING OF A STUDENT IN THE CONVENTIONS OF PURE MATHEMATICS ACQUIRING A FEELING FOR WHAT IS CONSIDERED A PROOF AND SUPPLYING LITERATE WRITTEN ARGUMENTS TO SUPPORT MATHEMATICAL PROPOSITIONS TO THIS EXTENT MORE THAN ONE PROOF IS INCLUDED FOR A THEOREM WHERE THIS IS CONSIDERED BENEFICIAL SO AS TO STIMULATE THE STUDENTS REASONING FOR ALTERNATE APPROACHES AND IDEAS THE SECOND HALF OF THIS BOOK AND CONSEQUENTLY THE SECOND SEMESTER COVERS DIFFERENTIATION AND INTEGRATION AS WELL AS THE CONNECTION BETWEEN THESE CONCEPTS AS DISPLAYED IN THE GENERAL THEOREM OF STOKES ALSO INCLUDED ARE SOME BEAUTIFUL APPLICATIONS OF THIS THEORY SUCH AS BROUWER S FIXED POINT THEOREM AND THE DIRICHLET PRINCIPLE FOR HARMONIC FUNCTIONS THROUGHOUT REFERENCE IS MADE TO EARLIER SECTIONS SO AS TO REINFORCE THE MAIN IDEAS BY REPETITION UNIQUE IN ITS APPLICATIONS TO SOME TOPICS NOT USUALLY COVERED AT THIS LEVEL

Your Federal Income Tax for Individuals

2011

THE STUDY OF HIGH DIMENSIONAL CONVEX BODIES FROM A GEOMETRIC AND ANALYTIC POINT OF VIEW WITH AN EMPHASIS ON THE DEPENDENCE OF VARIOUS PARAMETERS ON THE DIMENSION STANDS AT THE INTERSECTION OF CLASSICAL CONVEX GEOMETRY AND THE LOCAL THEORY OF BANACH SPACES IT IS ALSO CLOSELY LINKED TO MANY OTHER FIELDS SUCH AS PROBABILITY THEORY PARTIAL DIFFERENTIAL EQUATIONS RIEMANNIAN GEOMETRY HARMONIC ANALYSIS AND COMBINATORICS IT IS NOW UNDERSTOOD THAT THE CONVEXITY ASSUMPTION FORCES MOST OF THE VOLUME OF A HIGH DIMENSIONAL CONVEX BODY TO BE CONCENTRATED IN SOME CANONICAL WAY AND THE MAIN QUESTION IS WHETHER UNDER SOME NATURAL NORMALIZATION THE ANSWER TO MANY FUNDAMENTAL QUESTIONS SHOULD BE INDEPENDENT OF THE DIMENSION THE AIM OF THIS BOOK IS TO INTRODUCE A NUMBER OF WELL KNOWN QUESTIONS REGARDING THE DISTRIBUTION OF VOLUME IN HIGH DIMENSIONAL CONVEX BODIES WHICH ARE EXACTLY OF THIS NATURE AMONG THEM ARE THE SLICING PROBLEM THE THIN SHELL CONJECTURE AND THE KANNAN LOV🕮 SZ SIMONOVITS CONJECTURE THIS BOOK PROVIDES A SELF CONTAINED AND UP TO DATE ACCOUNT OF THE PROGRESS THAT HAS BEEN MADE IN THE LAST FIFTEEN YEARS

Numerical Bayesian Methods Applied to Signal Processing

2012-12-06

SUITABLE FOR A ONE OR TWO SEMESTER COURSE ADVANCED CALCULUS THEORY AND PRACTICE EXPANDS ON THE MATERIAL COVERED IN ELEMENTARY CALCULUS AND PRESENTS THIS MATERIAL IN A RIGOROUS MANNER THE TEXT IMPROVES STUDENTS PROBLEM SOLVING AND PROOF WRITING SKILLS FAMILIARIZES THEM WITH THE HISTORICAL DEVELOPMENT OF CALCULUS CONCEPTS AND HELPS THEM UNDERSTAND THE CONNECTIONS AMONG DIFFERENT TOPICS THE BOOK TAKES A MOTIVATING APPROACH THAT MAKES IDEAS LESS ABSTRACT TO STUDENTS IT EXPLAINS HOW VARIOUS TOPICS IN CALCULUS MAY SEEM UNRELATED BUT IN REALITY HAVE COMMON ROOTS EMPHASIZING HISTORICAL PERSPECTIVES THE TEXT GIVES STUDENTS A GLIMPSE INTO THE DEVELOPMENT OF CALCULUS AND ITS IDEAS FROM THE AGE OF NEWTON AND LEIBNIZ TO THE TWENTIETH CENTURY NEARLY 300 EXAMPLES LEAD TO IMPORTANT THEOREMS AS WELL AS HELP STUDENTS DEVELOP THE NECESSARY SKILLS TO CLOSELY EXAMINE THE THEOREMS PROOFS ARE ALSO PRESENTED IN AN ACCESSIBLE WAY TO STUDENTS BY STRENGTHENING SKILLS GAINED THROUGH ELEMENTARY CALCULUS THIS TEXTBOOK LEADS STUDENTS TOWARD MASTERING CALCULUS TECHNIQUES IT WILL HELP THEM SUCCEED IN THEIR FUTURE MATHEMATICAL OR ENGINEERING STUDIES

Mathematical Analysis

2012-12-06

THE AUTHORS STUDY HIGHER FORM PROCA EQUATIONS ON EINSTEIN MANIFOLDS WITH BOUNDARY DATA ALONG CONFORMAL INFINITY THEY SOLVE THESE LAPLACE TYPE BOUNDARY PROBLEMS FORMALLY AND TO ALL ORDERS BY CONSTRUCTING AN OPERATOR WHICH PROJECTS ARBITRARY FORMS TO SOLUTIONS THEY ALSO DEVELOP A PRODUCT FORMULA FOR SOLVING THESE ASYMPTOTIC PROBLEMS IN GENERAL THE CENTRAL TOOLS OF THEIR APPROACH ARE I THE CONFORMAL GEOMETRY OF DIFFERENTIAL FORMS AND THE ASSOCIATED EXTERIOR TRACTOR CALCULUS AND II A GENERALISED NOTION OF SCALE WHICH ENCODES THE CONNECTION BETWEEN THE UNDERLYING GEOMETRY AND ITS BOUNDARY THE LATTER ALSO CONTROLS THE BREAKING OF CONFORMAL INVARIANCE IN A VERY STRICT WAY BY COUPLING CONFORMALLY INVARIANT EQUATIONS TO THE SCALE TRACTOR ASSOCIATED WITH THE GENERALISED SCALE

Geometry of Isotropic Convex Bodies

2014-04-24

Advanced Calculus

2013-11-01

Poincare-Einstein Holography for Forms via Conformal Geometry in the Bulk

2015-04-09

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