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Proceedings of the Royal Society of London Transactions of the Cambridge Philosophical Society The Dictionary of Practical Phonography ... A Handbook of Electrical Testing Proceedings of the Royal Society Advanced Parallel Processing Technologies Journal Transactions Further Topics on Discrete-Time Markov Control Processes The Telegraphic Journal and Electrical Review Senate documents Van Nostrand's Eclectic Engineering Magazine The Mechanical Principles of Engineering and Architecture The American Mathematical Monthly Mathematical Computer Performance and Reliability American Architect Telegraphic Journal and Monthly Illustrated Review of Electrical Science Transactions of the Royal Institution of Naval Architects Fundamentals of Matrix Analysis with Applications Mathematical Questions and Solutions The elements of mechanics; including hydrostatics Proceedings of the Institution of Electrical Engineers Adapting Proofs-as-Programs Collinearity-Preserving Functions between Desarguesian Planes Proceedings of the London Mathematical Society A Manual of the Mechanics of Engineering and of the Construction of Machines Operator Theory and Harmonic Analysis Economics of Regulation and Antitrust, fifth edition The Elements of Natural Philosophy Semantic Technology Advanced Semiconductor Heterostructures: Novel Devices, Potential Device Applications And Basic Properties The Electrical World The Monetary Approach to the Balance of Payments Introduction to Combinatorics Topology of Numbers Covariances in Computer Vision and Machine Learning Automata and Computability Bioinformatics Fundamentals of Financial Instruments Minimal Surfaces II

Proceedings of the Royal Society of London

1876

obituary notices of deceased fellows were included in v 7 64 v 75 is made up of obituaries of deceased fellows chiefly for the period 1898 1904 with a general index to previous obituary notices the notices have been continued in subsequent volumes as follows v 78a 79b 80a b 86a b 87a 88a b

Transactions of the Cambridge Philosophical Society

1883

this book constitutes the refereed proceedings of the 9th international symposium on advanced parallel processing technologies appt 2011 held in shanghai china in september 2011 the 13 revised full papers presented were carefully reviewed and selected from 40 submissions the papers are organized in topical sections on parallel distributed system architectures architecture parallel application and software distributed and cloud computing

The Dictionary of Practical Phonography ...

1894

vols for 1970 79 include an annual special issue called iee reviews

A Handbook of Electrical Testing

1892

devoted to a systematic exposition of some recent developments in the theory of discrete time markov control processes the text is mainly confined to mcps with borel state and control spaces although the book follows on from the author s earlier work an important feature of this volume is that it is self contained and can thus be read independently of the first the control model studied is sufficiently general to include virtually all the usual discrete time stochastic control models that appear in applications to engineering economics mathematical population processes operations research and management science

Proceedings of the Royal Society

1876

includes section recent publications

Advanced Parallel Processing Technologies

2011-09-15

hardbound this book provides a review of this field and incorporates some of the most significant quantitative methods which can satisfy the demand of scientists and users interested in the mathematics of computer system engineering it emphasizes interdisciplinary aspects of applied mathematics and computer science and is the result of contributions by scientists who are active in applied mathematical research of interest to the analysis of computer performance and reliability

Journal

1884

list of members in each volume

Transactions

1883

an accessible and clear introduction to linear algebra with a focus on matrices and engineering applications providing comprehensive coverage of matrix theory from a geometric and physical perspective fundamentals of matrix analysis with applications describes the functionality of matrices and their ability to quantify and analyze many practical applications written by a highly qualified author team the book presents tools for matrix analysis and is illustrated with extensive examples and software implementations beginning with a detailed exposition and review of the gauss elimination method the authors maintain readers interest with refreshing discussions regarding the issues of operation counts computer speed and precision complex arithmetic formulations parameterization of solutions and the logical traps that dictate strict adherence to gauss s instructions the book heralds matrix formulation both as notational shorthand and as a quantifier of physical operations such as rotations projections reflections and the gauss reductions inverses and eigenvectors are visualized first in an operator context before being addressed computationally least squares theory is expounded in all its manifestations including optimization orthogonality computational accuracy and even function theory fundamentals of matrix analysis with applications also features novel approaches employed to explicate the qr singular value schur and jordan decompositions and their applications coverage of the role of the matrix exponential in the solution of linear systems of differential equations with constant coefficients chapter by chapter summaries review problems technical writing exercises select solutions and group projects to aid comprehension of the presented concepts fundamentals of matrix analysis with applications is an excellent textbook for undergraduate courses in linear algebra and matrix theory for students majoring in mathematics engineering and science the book is also an accessible go to reference for readers seeking clarification of the fine points of kinematics circuit theory control theory computational statistics and numerical algorithms

Further Topics on Discrete-Time Markov Control Processes

2012-12-06

vols for 1970 79 include an annual special issue called iee reviews

The Telegraphic Journal and Electrical Review

1888

this monograph details several important advances in the direction of a practical proofs as programs paradigm which constitutes a set of approaches to developing programs from proofs in constructive logic with applications to industrial scale complex software engineering problems one of the books central themes is a general abstract framework for developing new systems of programs synthesis by adapting proofs as programs to new contexts

Senate documents

1882

using concepts from valuation theory we obtain a characterization of all collinearity preserving functions from one affine or projective desarguesian plane into another the case in which the planes are projective and the range contains a quadrangle has been treated previously in the literature our results permit one or both planes to be affine and include cases where the range contains a triangle but no quadrangle a key theorem is that with the exception of certain embeddings defined on planes of order 2 and 3 every collinearity preserving function from one affine desarguesian plane into another can be extended to a collinearity preserving function between enveloping projective planes

Van Nostrand's Eclectic Engineering Magazine

1879

this volume is part of the collaboration agreement between springer and the isaac society this is the first in the two volume series originating from the 2020 activities within the international scientific conference modern methods problems and applications of

operator theory and harmonic analysis otha southern federal university in rostov on don russia this volume is focused on general harmonic analysis and its numerous applications the two volumes cover new trends and advances in several very important fields of mathematics developed intensively over the last decade the relevance of this topic is related to the study of complex multiparameter objects required when considering operators and objects with variable parameters

The Mechanical Principles of Engineering and Architecture

1869

a thoroughly revised and updated edition of the leading textbook on government and business policy presenting the key principles underlying sound regulatory and antitrust policy regulation and antitrust are key elements of government policy this new edition of the leading textbook on government and business policy explains how the latest theoretical and empirical economic tools can be employed to analyze pressing regulatory and antitrust issues the book departs from the common emphasis on institutions focusing instead on the relevant underlying economic issues using state of the art analysis to assess the appropriate design of regulatory and antitrust policy extensive case studies illustrate fundamental principles and provide insight on key issues in regulation and antitrust policy this fifth edition has been thoroughly revised and updated reflecting both the latest developments in economic analysis and recent economic events the text examines regulatory practices through the end of the obama and beginning of the trump administrations new material includes coverage of global competition and the activities of the european commission recent mergers including comcast nbc universal antitrust in the new economy including investigations into microsoft and google the financial crisis of 2007 2008 and the dodd frank act the fda approval process climate change policies and behavioral economics as a tool for designing regulatory strategies

The American Mathematical Monthly

1896

originally published in 1873 elements of natural philosophy is a condensed version of lord kelvin and peter tait s revolutionary work treatise on natural philosophy this version is designed for beginning students and the examples and lessons it contains use only geometry algebra and trigonometry eschewing the calculus of the more advanced edition written for math students at the university level this textbook will be of interest to anyone with a love for math and science irish scientist engineer and author lord william thomson kelvin 1824 1907 is considered an foundational thinker of modern physics he invented the kelvin temperature scale and also helped develop the first transatlantic telegraph cable scottish physicist peter guthrie tait 1831 1901 is most famous for writing with lord kelvin the groundbreaking physics textbook treatise on natural philosophy 1867

Mathematical Computer Performance and Reliability

1984

this book constitutes the proceedings of the second joint international semantic technology conference jist 2012 held in nara japan in december 2012 the 20 full papers and 13 short papers included in this volume were carefully reviewed and selected from 90 submissions the regular papers deal with ontology and description logics rdf and sparql learning and discovery semantic search knowledge building semantic application the in use track papers cover topics on social semantic and semantic search and the special track papers have linked data in practice and database integration as a topic

American Architect

1897

this volume provides valuable summaries on many aspects of advanced semiconductor heterostructures and highlights the great variety of semiconductor heterostructures that has emerged since their original conception as exemplified by the chapters in this book recent progress on advanced semiconductor heterostructures spans a truly remarkable range of scientific fields with an associated diversity of applications some of these applications will undoubtedly revolutionize critically important facets of modern technology at the heart of these advances is the ability to design and control the properties of semiconductor devices on the nanoscale as an example the intersubband lasers discussed in this book have a broad range of previously unobtainable characteristics

and associated applications as a result of the nanoscale dimensional control of the underlying semiconductor heterostructures as this book illustrates an astounding variety of heterostructures can be fabricated with current technology the potentially widespread use of layered quantum dots fabricated with nanoscale precision in biological applications opens up exciting advances in medicine in addition many more excellent examples of the remarkable impact being made through the use of semiconductor heterostructures are given the summaries in this volume provide timely insights into what we know now about selected areas of advanced semiconductor heterostructures and also provide foundations for further developments

Telegraphic Journal and Monthly Illustrated Review of Electrical Science

1886

this book collects together the basic documents of an approach to the theory and policy of the balance of payments developed in the 1970s the approach marked a return to the historical traditions of international monetary theory after some thirty years of departure from them a departure occasioned by the international collapse of the 1930s the keynesian revolution and a long period of war and post war reconstruction in which the international monetary system was fragmented by exchange controls currency inconvertibility and controls over international trade and capital movements

Transactions of the Royal Institution of Naval Architects

1895

what is combinatorics anyway broadly speaking combinatorics is the branch of mathematics dealing with different ways of selecting objects from a set or arranging objects it tries to answer two major kinds of questions namely counting questions how many ways can a selection or arrangement be chosen with a particular set of properties and structural questions does there exist a selection or arrangement of objects with a particular set of properties the authors have presented a text for students at all levels of preparation for some this will be the first course where the students see several real proofs others will have a good background in linear algebra will have completed the calculus stream and will have started abstract algebra the text starts by briefly discussing several examples of typical combinatorial problems to give the reader a better idea of what the subject covers the next chapters explore enumerative ideas and also probability it then moves on to enumerative functions and the relations between them and generating functions and recurrences important families of functions or numbers and then theorems are presented brief introductions to computer algebra and group theory come next structures of particular interest in combinatorics posets graphs codes latin squares and experimental designs follow the authors conclude with further discussion of the interaction between linear algebra and combinatorics features two new chapters on probability and posets numerous new illustrations exercises and problems more examples on current technology use a thorough focus on accuracy three appendices sets induction and proof techniques vectors and matrices and biographies with historical notes flexible use of mapletm and mathematicatm

Fundamentals of Matrix Analysis with Applications

2015-10-12

this book serves as an introduction to number theory at the undergraduate level emphasizing geometric aspects of the subject the geometric approach is exploited to explore in some depth the classical topic of quadratic forms with integer coefficients a central topic of the book quadratic forms of this type in two variables have a very rich theory developed mostly by euler lagrange legendre and gauss during the period 1750 1800 in this book their approach is modernized by using the splendid visualization tool introduced by john conway in the 1990s called the topograph of a quadratic form besides the intrinsic interest of quadratic forms this theory has also served as a stepping stone for many later developments in algebra and number theory the book is accessible to students with a basic knowledge of linear algebra and arithmetic modulo n some exposure to mathematical proofs will also be helpful the early chapters focus on examples rather than general theorems but theorems and their proofs play a larger role as the book progresses

Mathematical Questions and Solutions

1874

covariance matrices play important roles in many areas of mathematics statistics and machine learning as well as their applications in computer vision and image processing they give rise to a powerful data representation namely the covariance descriptor with numerous practical applications in this book we begin by presenting an overview of the it finite dimensional covariance matrix representation approach of images along with its statistical interpretation in particular we discuss the various distances and divergences that arise from the intrinsic geometrical structures of the set of symmetric positive definite spd matrices namely riemannian manifold and convex cone structures computationally we focus on kernel methods on covariance matrices especially using the log euclidean distance we then show some of the latest developments in the generalization of the finite dimensional covariance matrix representation to the it infinite dimensional covariance operator representation via positive definite kernels we present the generalization of the affine invariant riemannian metric and the log hilbert schmidt metric which generalizes the log euclidean distance computationally we focus on kernel methods on covariance operators especially using the log hilbert schmidt distance specifically we present a two layer kernel machine using the log hilbert schmidt distance and its finite dimensional approximation which reduces the computational complexity of the exact formulation while largely preserving its capability theoretical analysis shows that mathematically the approximate log hilbert schmidt distance should be preferred over the approximate log hilbert schmidt inner product and computationally it should be preferred over the approximate affine invariant riemannian distance numerical experiments on image classification demonstrate significant improvements of the infinite dimensional formulation over the finite dimensional counterpart given the numerous applications of covariance matrices in many areas of mathematics statistics and machine learning just to name a few we expect that the infinite dimensional covariance operator formulation presented here will have many more applications beyond those in computer vision

The elements of mechanics; including hydrostatics

1879

this textbook provides undergraduate students with an introduction to the basic theoretical models of computability and develops some of the model s rich and varied structure the first part of the book is devoted to finite automata and their properties pushdown automata provide a broader class of models and enable the analysis of context free languages in the remaining chapters turing machines are introduced and the book culminates in analyses of effective computability decidability and gödel s incompleteness theorems students who already have some experience with elementary discrete mathematics will find this a well paced first course and a number of supplementary chapters introduce more advanced concepts

Proceedings of the Institution of Electrical Engineers

1874

this comprehensive textbook presents a self contained guide to bioinformatics defined in its broadest sense as the application of information science to biology thoroughly updated and greatly expanded this third edition now includes material on the growing array of omics covering metagenomics toxicogenomics glycomics lipidomics microbiomics and phenomics new chapters have also been added on ecosystems management and the nervous system emphasis is placed on providing both a firm grounding in the core concepts and a clear overview of the complete field of bioinformatics features explains the fundamentals of information science relevant to biology covers both organismal ontogeny and phylogeny as well as genome structure and molecular aspects examines the most important practical applications of bioinformatics providing detailed descriptions of both the experimental process and the data analysis provides a varied selection of problems throughout the book to stimulate further thinking

Adapting Proofs-as-Programs

2005-06-21

in the newly revised second edition of fundamentals of financial instruments an introduction to stocks bonds foreign exchange and derivatives renowned finance trainer sunil parameswaran delivers a comprehensive introduction to the full range of financial products commonly offered in the financial markets using clear worked examples of everything from basic equity and debt securities to complex instruments like derivatives and mortgage backed securities the author outlines the structure and dynamics of the free market system and explores the environment in which financial instruments are traded this one of a kind book also includes new discussions on interest rate derivatives bonds with embedded options mutual funds etfs pension plans financial macroeconomics orders and exchanges and excel functions for finance supplementary materials to enhance the reader s ability to

apply the material contained within a foundational exploration of interest rates and the time value of money fundamentals of financial instruments is the ideal resource for business school students at the undergraduate and graduate levels as well as anyone studying financial management or the financial markets it also belongs on the bookshelves of executive education students and finance professionals seeking a refresher on the fundamentals of their industry

Collinearity-Preserving Functions between Desarguesian Planes

1980

minimal surfaces i is an introduction to the field of minimal surfaces and a presentation of the classical theory as well as of parts of the modern development centered around boundary value problems part ii deals with the boundary behaviour of minimal surfaces part i is particularly apt for students who want to enter this interesting area of analysis and differential geometry which during the last 25 years of mathematical research has been very active and productive surveys of various subareas will lead the student to the current frontiers of knowledge and can also be useful to the researcher the lecturer can easily base courses of one or two semesters on differential geometry on vol 1 as many topics are worked out in great detail numerous computer generated illustrations of old and new minimal surfaces are included to support intuition and imagination part 2 leads the reader up to the regularity theory for nonlinear elliptic boundary value problems illustrated by a particular and fascinating topic there is no comparably comprehensive treatment of the problem of boundary regularity of minimal surfaces available in book form this long awaited book is a timely and welcome addition to the mathematical literature

Proceedings of the London Mathematical Society

1886

A Manual of the Mechanics of Engineering and of the Construction of Machines

1870

Operator Theory and Harmonic Analysis

2021-09-27

Economics of Regulation and Antitrust, fifth edition

2018-08-14

The Elements of Natural Philosophy

2007-04-01

Semantic Technology

2013-04-08

Advanced Semiconductor Heterostructures: Novel Devices, Potential Device Applications And Basic Properties

2003-09-12

The Electrical World

1893

The Monetary Approach to the Balance of Payments

2013-07-18

Introduction to Combinatorics

2016-12-12

Topology of Numbers

2022-10-19

Covariances in Computer Vision and Machine Learning

2022-05-31

Automata and Computability

2012-12-06

Bioinformatics

2015-05-18

Fundamentals of Financial Instruments

2022-03-09

Minimal Surfaces II

2013-03-14

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