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Data Science and Its Applications Discrete Mathematics and Its Applications Research Topics in Graph Theory and Its Applications Lie Theory and Its Applications in Physics Linear Algebra and Its Applications The Fourier Transform and Its Applications Computer Science and its Applications Boolean Algebra and Its Applications Non-Associative Algebra and Its Applications Robust Chaos and Its Applications Operations Research and Its Applications Web Technology and Its Applications Aggregation Operators for Various Extensions of Fuzzy Set and Its Applications in Transportation Problems Privacy-Enhancing Fog Computing and Its Applications Operational Calculus in Two Variables and Its Applications Emerging Topics in Computer Vision and Its Applications Nonlinear Functional Analysis and Its Applications Introduction To The Calculus of Variations And Its Applications Matrices and Society Linear Algebra and Its Applications: A first course Mathematics and Its Applications to Science and Natural Philosophy in the Middle Ages Lay:Linear Algebra and Its Applications Air Pollution Modeling and Its Application IX Calculus and Its Applications Linear Algebra and Its Applications Fuzzy Set Theory—and Its Applications Expert Knowledge and Its Application in Landscape Ecology Hilbert-Huang Transform and Its Applications Air Pollution Modeling and its Application XVIII Number Theory and Its Applications A Novel Single-Valued Neutrosophic Set Similarity Measure and Its Application in Multicriteria Decision-Making Game Theory and Its Applications An Investigation of Commodity Theory and Its Application to Critical Media Studies Chemical Technology ; Or, Chemistry in Its Applications to the Arts and Manufactures: Fuel and its application MIT Essays in Mathematics and its Applications Geometry and Its Applications Advances in Mathematical Analysis and its Applications

Data Science and Its Applications

2021-08-18

the term data being mostly used experimented analyzed and researched data science and its applications finds relevance in all domains of research studies including science engineering technology management mathematics and many more in wide range of applications such as sentiment analysis social medial analytics signal processing gene analysis market analysis healthcare bioinformatics etc the book on data science and its applications discusses about data science overview scientific methods data processing extraction of meaningful information from data and insight for developing the concept from different domains highlighting mathematical and statistical models operations research computer programming machine learning data visualization pattern recognition and others the book also highlights data science implementation and evaluation of performance in several emerging applications such as information retrieval cognitive science healthcare and computer vision the data analysis covers the role of data science depicting different types of data such as text image biomedical signal etc useful for a wide range of real time applications the salient features of the book are overview challenges and opportunities in data science and real time applications addressing big data issues useful machine learning methods disease detection and healthcare applications utilizing data science concepts and deep learning applications in stock market education behavior analysis image captioning gene analysis and scene text analysis data optimization due to multidisciplinary applications of data science concepts the book is intended for wide range of readers that include data scientists big data analysts research scholars engaged in data science and machine learning applications

Discrete Mathematics and Its Applications

2018-07-09

rosen s discrete mathematics and its applications presents a precise relevant comprehensive approach to mathematical concepts this world renowned best selling text was written to accommodate the needs across a variety of majors and departments including mathematics computer science and engineering as the market leader the book is highly flexible comprehensive and a proven pedagogical teaching tool for instructors

Research Topics in Graph Theory and Its Applications

2019-06-24

this book considers a number of research topics in graph theory and its applications including ideas devoted to alpha discrepancy strongly perfect graphs reconstruction conjectures graph invariants hereditary classes of graphs and embedding graphs on topological surfaces it also discusses applications of graph theory such as transport networks and hazard assessments based on unified networks the book is ideal for developers of grant proposals and researchers interested in exploring new areas of graph theory and its applications

Lie Theory and Its Applications in Physics

2013-04-09

traditionally lie theory is a tool to build mathematical models for physical systems recently the trend is towards geometrisation of the mathematical description of physical systems and objects a geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure geometrisation and symmetries are meant in their broadest sense i e classical geometry differential geometry groups and quantum groups infinite dimensional super algebras and their representations furthermore we include the necessary tools from functional analysis and number theory this is a large interdisciplinary and interrelated field samples of these new trends are presented in this volume based on contributions from the workshop lie theory and its applications in physics held near varna bulgaria in june 2011 this book is suitable for an extensive audience of mathematicians mathematical physicists theoretical physicists and researchers in the field of lie theory

Linear Algebra and Its Applications

2020

this print textbook is available for students to rent for their classes the pearson print rental program provides students with affordable access to learning materials so they come to class ready to succeed for courses in linear algebra fosters the concepts and skills students will use in future careers linear algebra and its applications offers a modern elementary introduction with broad relevant applications with traditional texts the early stages of the course are relatively easy as material is presented in a familiar concrete setting but students often hit a wall when abstract concepts are introduced certain concepts fundamental to the study of linear algebra such as linear independence vector space and linear transformations require time to learn and students understanding of them is vital lay lay and mcdonald make these concepts more accessible by introducing them early in a familiar concrete rn setting developing them gradually and returning to them throughout the text so that students can grasp them when they are discussed in the abstract throughout the 6th edition updates exercises adds new applications takes advantage of improved technology and offers more support for conceptual learning also available with mylab math by combining trusted author content with digital tools and a flexible platform mylab personalizes the learning experience and improves results for each student 0135851254 9780135851258 linear algebra and its applications rental edition 6 e



1978

this text is designed for use in a senior undergraduate or graduate level course in fourier transforms this text differs from many other fourier transform books in its emphasis on applications bracewell applies mathematical concepts to the physical world throughout this text equipping students to think about the world and physics in terms of transforms the pedagogy in this classic text is excellent the author has included such tools as the pictorial dictionary of transforms and bibliographic references in addition there are many excellent problems throughout this book which are more than mathematical exercises often requiring students to think in terms of specific situations or asking for educated opinions to aid students further discussions of many of the problems can be found at the end of the book

The Fourier Transform and Its Applications

2000

the 6th ftra international conference on computer science and its applications csa 14 will be held in guam usa dec 17 19 2014 csa 14 presents a comprehensive conference focused on the various aspects of advances in engineering systems in computer science and applications including ubiquitous computing u health care system big data ui ux for human centric computing computing service bioinformatics and bio inspired computing and will show recent advances on various aspects of computing technology ubiquitous computing services and its application

Computer Science and its Applications

2014-11-29

introductory treatment begins with set theory and fundamentals of boolean algebra proceeding to concise accounts of applications to symbolic logic switching circuits relay circuits binary arithmetic and probability theory 1961 edition

Boolean Algebra and Its Applications

2012-05-24

with contributions derived from presentations at an international conference non associative algebra and its applications explores a wide range of topics focusing on lie algebras nonassociative rings and algebras quasigroups loops and related systems as well as applications of nonassociative algebra to geometry physics and natural sciences this book covers material such as jordan superalgebras nonassociative deformations nonassociative generalization of hopf algebras the structure of free algebras derivations of lie algebras and the identities of albert algebra it also includes applications of smooth quasigroups and loops to differential geometry and relativity

Non-Associative Algebra and Its Applications

2006-01-13

robust chaos is defined by the absence of periodic windows and coexisting attractors in some neighborhoods in the parameter space of a dynamical system this unique book explores the definition sources and roles of robust chaos the book is written in a reasonably self contained manner and aims to provide students and researchers with the necessary understanding of the subject most of the known results experiments and conjectures about chaos in general and about robust chaos in particular are collected here in a pedagogical form many examples of dynamical systems ranging from purely mathematical to natural and social processes displaying robust chaos are discussed in detail at the end of each chapter is a set of exercises and open problems more than 260 in the whole book intended to reinforce the ideas and provide additional experiences for both readers and researchers in nonlinear science in general and chaos theory in particular contents poincaré map technique smale horseshoe and symbolic dynamicsrobustness of chaosstatistical properties of chaotic attractorsstructural stabilitytransversality invariant foliation and the shadowing lemmachaotic attractors with hyperbolic structurerobust chaos in hyperbolic systemslorenz type systemsrobust chaos in the lorenz type systemsno robust chaos in quasi attractorsrobust chaos in one dimensional mapsrobust chaos in 2 d piecewise smooth maps readership advanced undergraduate and graduate students researchers engineers and instructors interested in chaos and dynamical systems keywords poincaré map technique smale horseshoe symbolic dynamics robustness of chaos statistical properties of chaotic attractors structural stability transversality invariant foliation shadowing lemma hyperbolic structure lorenz type

systems quasi attractors robust chaos in one dimensional maps robust chaos in 2 d piecewise smooth maps

Robust Chaos and Its Applications

2011-10-17

the present text book entitled operations research its applications is very much useful for a beginner in this domain more particularly for a quality control manager person using network analysis and queue models for decision making it is an art science technology to understand the business environment to take the necessary alternative course of action to enhance the company s reputation it is frequently being used to analyze complex real life problems typically with the goal of improving the performance of the organization it is a multidisciplinary science which deals with the problem formulation and solution in order to take an apt decision this text book is suitable for all graduate students across the globe in any industrial firm managers always use methods of operations research to maintain a better quality control in their production this is possible as it provides a fundamental basis in which one has to maintain and establish the standards of the company s performance and ways to measure its productivity it also time and again monitors the standards and reports deviations if any and enables the authorities to take the corrective measures the mathematically developed formulas used in this book are readable format also student friendly the main idea of this book is to increase the productivity in a deterministic or probabilistic way as they apply by using tools like defining suitable algorithm machine utilization and manpower planning in incorporating innovative technologies in a nutshell it is a subsidiary framework for a student with an adequate mathematical foundation to understand operations research problems like linear programming assignment problems network models dynamic programming etc thus it gives an insight to understand the industry requirements and suggests valid optimal solutions by using the latest available techniques

Operations Research and Its Applications

2021-10-14

this book embodies a distillation of topics that we as educators have frequently covered in the past two decades in various undergraduate courses related to technology and its applications in vtu belgaum this book can also serve the purpose of material for a more advanced level where the reader is exposed to alternate and more contemporary computational frameworks that are becoming common and more suitable

Web Technology and Its Applications

2021-01-01

this book introduces readers to the fundamentals of transportation problems under the fuzzy environment and its extensions it also discusses the limitations and drawbacks of 1 recently proposed aggregation operators under the fuzzy environment and its various extensions 2 recently proposed methods for solving transportation problems under the fuzzy environment and 3 recently proposed methods for solving transportation problems under the intuitionistic fuzzy environment in turn the book proposes simplified methods to overcome these limitations

Aggregation Operators for Various Extensions of Fuzzy Set and Its Applications in Transportation Problems

2020-08-19

this springerbrief covers the security and privacy challenges in fog computing and proposes a new secure and privacy preserving mechanisms to resolve these challenges for securing fog assisted iot applications chapter 1 introduces the architecture of fog assisted iot applications and the security and privacy challenges in fog computing chapter 2 reviews several promising privacy enhancing techniques and illustrates examples on how to leverage these techniques to enhance the privacy of users in fog computing specifically the authors divide the existing privacy enhancing techniques into three categories identity hidden techniques location privacy protection and data privacy enhancing techniques the research is of great importance since security and privacy problems faced by fog computing impede the healthy development of its enabled iot applications with the advanced privacy enhancing techniques the authors propose three secure and privacy preserving protocols for fog computing applications including smart parking navigation mobile crowdsensing and smart grid chapter 3 introduces identity privacy leakage in smart parking navigation systems and proposes a privacy preserving smart parking navigation system to prevent identity privacy exposure and support efficient parking guidance retrieval through road side units fogs with high retrieving probability and security guarantees chapter 4 presents the location privacy leakage during task allocation in mobile crowdsensing and propose a strong privacy preserving task allocation scheme that enables location based task allocation and reputation based report selection without exposing knowledge about the location and reputation for participators in mobile crowdsensing chapter 5 introduces the data privacy leakage in smart grid and proposes an efficient and privacy preserving smart metering protocol to allow collectors fogs to achieve real time measurement collection with privacy enhanced data aggregation finally conclusions and future research directions are given in chapter 6 this brief validates the significant feature extension and efficiency improvement of iot devices without sacrificing the security and privacy of users against dishonest fog nodes it also provides valuable insights on the security and privacy protection for fog enabled iot applications researchers and professionals who carry out research on security and privacy in wireless communication will want to purchase this springerbrief also advanced level students whose main research area is mobile network security will also be interested in this springerbrief

Privacy-Enhancing Fog Computing and Its Applications

2018-11-12

concise treatment of fundamental theory explores two dimensional laplace transform and basic definitions theorems applications of operational calculus in two variables includes tables of formulae for various categories of functions 1962 edition

Operational Calculus in Two Variables and Its Applications

2017-06-15

this book gives a comprehensive overview of the most advanced theories methodologies and applications in computer vision particularly it gives an extensive coverage of 3d and robotic vision problems example chapters featured are fourier methods for 3d surface modeling and analysis use of constraints for calibration free 3d euclidean reconstruction novel photogeometric methods for capturing static and dynamic objects performance evaluation of robot localization methods in outdoor terrains integrating 3d vision with force tactile sensors tracking via in floor sensing self calibration of camera networks etc some unique applications of computer

this package includes linear algebra and its applications by lay and the accompanying student study guide linear algebra is relatively easy for students during the early stages of the course when the material is presented in a familiar concrete setting but when abstract concepts are introduced students often hit a brick wall instructors seem to agree that certain concepts such as linear independence spanning subspace vector space and linear transformations are not easily understood and require time to assimilate since they are fundamental to the study of linear algebra students understanding of these concepts is vital to their mastery of the subject david lay introduces these concepts early in a familiar concrete setting develops them gradually and returns to them again and again throughout the text so that when discussed in the abstract these concepts are more accessible an integral part of this text the study guide incorporates detailed solutions to every third odd numbered exercise as well as solutions to every odd numbered writing exercise for which the main text only provides a hint

Linear Algebra and Its Applications: A first course

1989-01-01

proceedings of the 19th nato ccms international technical meeting on air pollution modeling and its application held in crete greece september 29 october 4 1991

Mathematics and Its Applications to Science and Natural Philosophy in the Middle Ages

1987-08

calculus and its applications tenth edition remains a best selling text because of its accessible presentation that anticipates student needs the writing style is ideal for today's readers providing intuitive explanations that work with the carefully crafted artwork to help them visualize new calculus concepts additionally the text's numerous and up to date applications from business economics life sciences and social sciences help motivate readers algebra diagnostic and review material is available for those who need to strengthen basic skills every aspect of this revision is designed to motivate and help readers to more readily understand and apply the mathematics

Lay:Linear Algebra and Its Applications

2012-01-27

fuzzy set theory and its applications third edition is a textbook for courses in fuzzy set theory it can also be used as an introduction to the subject the character of a textbook is balanced with the dynamic nature of the research in the field by including many useful references to develop a deeper understanding among interested readers the book updates the research agenda which has witnessed profound and startling advances since its inception some 30 years ago with chapters on possibility theory fuzzy logic and approximate reasoning expert systems fuzzy control fuzzy data analysis decision making and fuzzy set models in operations research all chapters have been updated exercises are included

Air Pollution Modeling and Its Application IX

1992-11-30

typically landscape ecologists use empirical observations to conduct research and devise solutions for applied problems in conservation and management in some instances they rely on advice and input of experienced professionals in both developing and applying knowledge given the wealth of expert knowledge and the risks of its informal and implicit applications in landscape ecology it is necessary to formally recognize and characterize expert knowledge and bring rigor to methods for its applications in this context the broad goal of this book is to introduce the concept of expert knowledge and examine its role in landscape ecological applications we plan to do so in three steps first we introduce the topic to landscape ecologists explore salient characteristics of experts and expert knowledge and describe methods used in capturing and formalizing that knowledge second we present examples of research in landscape ecology from a variety of ecosystems and geographic locations that formally incorporate expert knowledge these case studies address a range of topics that will interest landscape ecologists and other resource management and conservation professionals including the specific roles of expert knowledge in developing testing parameterizing and applying models estimating the uncertainty in expert knowledge developing methods of formalizing and incorporating expert knowledge and using expert knowledge as competing models and a source of alternate hypotheses third we synthesize the state of knowledge on this topic and critically examine the advantages and disadvantages of incorporating expert knowledge in landscape ecological applications the disciplinary subject areas we address are broad and cover much of the scope of contemporary landscape ecology including broad scale forest management and conservation quantifying forest disturbances and succession conservation of habitats for a range of avian and mammal species vulnerability and conservation of marine ecosystems and the spread and impacts of invasive plants this text incorporates the collective experience and knowledge of over 35 researchers in landscape ecology representing a diverse range of disciplinary subject areas and geographic locations through this text we will catalyze further thought and investigations on expert knowledge among the target readership of researchers practitioners and graduate students in landscape ecology

Calculus and Its Applications

2012

the hilbert-cohuang transform hht represents a desperate attempt to break the suffocating hold on the field of data analysis by the twin assumptions of linearity and stationarity unlike spectrograms wavelet analysis or the wigner-coville distribution hht is truly a time frequency analysis but it does not require an a priori functional basis and therefore the convolution computation of frequency the method provides a magnifying glass to examine the data and also offers a different view of data from nonlinear processes with the results no longer shackled by spurious harmonics or the artifacts of imposing a linearity property on a nonlinear system or of limiting by the uncertainty principle and a consequence of fourier transform pairs in data analysis this is the first hht book containing papers covering a wide variety of interests the chapters are divided into mathematical aspects and applications with the applications further grouped into geophysics structural safety and visualization

Linear Algebra and Its Applications

2020-11-11

recent developments in air pollution modeling are explored as a series of contributions from researchers at the forefront of their field this book on air quality modeling and its applications is focused on local urban regional and intercontinental modeling data assimilation and air quality forecasting model assessment and validation aerosol transformation the relationship between air quality and human health and the effects of climate change on air quality it consists of a series of papers that were presented at the 28th nato ccms conference on air pollution modeling and its application held in leipzig germany may 15 19 2006 it is intended as reference material for students and professors interested in air pollution modeling at the graduate level as well as researchers and professionals involved in developing and

utilizing air pollution models discusses cutting edge developments on air pollution modeling and air quality issues presents topical and highly relevant subjects to the air quality and modeling research community provides material that can be used to further improve air quality modeling and to inform the community about recent and novel developments in the field

Fuzzy Set Theory—and Its Applications

2013-04-17

number theory and its applications are well known for their proven properties and excellent applicability in interdisciplinary fields of science until now research on number theory and its applications has been done in mathematics applied mathematics and the sciences in particular number theory plays a fundamental and important role in mathematics and applied mathematics this book is based on recent results in all areas related to number theory and its applications

Expert Knowledge and Its Application in Landscape Ecology

2011-10-22

the single valued neutrosophic set is a subclass of neutrosophic set and has been proposed in recent years an important application for single valued neutrosophic sets is to solve multicriteria decision making problems

Hilbert-Huang Transform and Its Applications

2005

the media today and especially the national press are frequently in conflict with people in the public eye particularly politicians and celebrities over the disclosure of private information and behaviour historically journalists have argued that naming and shaming serious wrong doing and behaviour on the part of public officials is justified as being in the public interest however when the media spotlight is shone on perfectly legal personal behaviour family issues and sexual orientation and when in particular this involves ordinary people the question arises of whether such matters are really in the public interest in any meaningful sense of the term in this book leading academics commentators and journalists from a variety of different cultures consider the extent to which the media are entitled to reveal details of people s private lives the laws and regulations which govern such revelations and whether these are still relevant in the age of social media publisher s website

Air Pollution Modeling and its Application XVIII

2011-09-22

the theory of the commodity is used by critical theorists to explain the general organization and development of capitalist society it was originally proposed by marx and subsequently developed by lukacs and later adorno and the frankfurt school media scholars such as dallas smythe judith williamson robert goldman and eileen meehan have identified the commodity structure in several forms throughout the process of mass communication although commodity theory is not always

articulated as a part of critical studies it is useful for understanding the process of mass communication under capitalism by investigating the dynamics of market processes and cultural innovation this paper shows where the theory of the commodity fits into critical media studies and suggests where some productive applications may be found

Number Theory and Its Applications

2020-11-04

mit

A Novel Single-Valued Neutrosophic Set Similarity Measure and Its Application in Multicriteria Decision-Making

1981

this volume dedicated to the eminent mathematician vladimir arnold presents a collection of research and survey papers written on a large spectrum of theories and problems that have been studied or introduced by arnold himself emphasis is given to topics relating to dynamical systems stability of integrable systems algebraic and differential topology global analysis singularity theory and classical mechanics a number of applications of arnold s groundbreaking work are presented this publication will assist graduate students and research mathematicians in acquiring an in depth understanding and insight into a wide domain of research of an interdisciplinary nature

Game Theory and Its Applications

1997

this unique textbook combines traditional geometry presents a contemporary approach that is grounded in real world applications it balances the deductive approach with discovery learning introduces axiomatic euclidean and non euclidean and transformational geometry the text integrates applications and examples throughout the third edition offers many updates including expanding on historical notes geometry and its applications is a significant text for any college or university that focuses on geometry s usefulness in other disciplines it is especially appropriate for engineering and science majors as well as future mathematics teachers the third edition streamlines the treatment from the previous two editions treatment of axiomatic geometry has been expanded nearly 300 applications from all fields are included an emphasis on computer science related applications appeals to student interest many new excercises keep the presentation fresh

An Investigation of Commodity Theory and Its Application to Critical Media Studies

1855

advances in mathematical analysis and its applications is designed as a reference text and explores several important aspects of recent developments in the interdisciplinary applications of mathematical analysis and highlights how it is now being employed in many areas of scientific research it discusses theory and problems in real and complex analysis functional analysis approximation theory operator theory analytic inequalities the radon transform nonlinear analysis and various applications of interdisciplinary research some topics are also devoted to specific applications such as the three body problem finite element analysis in fluid mechanics algorithms for difference of monotone operators a vibrational approach to a financial problem and more features the book encompasses several contemporary topics in the field of mathematical analysis their applications and relevancies in other areas of research and study it offers an understanding of research problems by presenting the necessary developments in reasonable details the book also discusses applications and uses of operator theory fixed point theory inequalities bi univalent functions functional equations and scalar objective programming and presents various associated problems and ways to solve such problems contains applications on wavelets analysis and covid 19 to show that mathematical analysis has interdisciplinary as well as real life applications the book is aimed primarily at advanced undergraduates and postgraduate students studying mathematical analysis and mathematics in general researchers will also find this book useful

Chemical Technology ; Or, Chemistry in Its Applications to the Arts and Manufactures: Fuel and its application

2015-12-31

MIT

2016-06-14

Essays in Mathematics and its Applications

2022-06-19

Geometry and Its Applications

2022-12-12

Advances in Mathematical Analysis and its Applications

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