

Nutrition Science And Applications Canadian Edition

Earth Science and Applications from Space Data Science and Applications for Modern Power Systems Handbook of Research on Decision Sciences and Applications in the Transportation Sector Inventory and Summary of Federal ADP Activities Computer Science - Theory and Applications Science and Applications of Nanoparticles Applications of Mathematics in Science and Technology Carbon Materials: Science And Applications Data Science and Applications Handbook of Research on Advanced Practical Approaches to Deepfake Detection and Applications Collaborative and Distributed E-Research: Innovations in Technologies, Strategies and Applications Data-Centric Business and Applications Geometric Algebra with Applications in Science and Engineering Titanium-Based Alloys - Characteristics and Applications Microgravity Science and Applications Bibliography Meat Science and Applications Modern Physical Chemistry: Engineering Models, Materials, and Methods with Applications Porous Polymer Science and Applications Robotic Systems: Concepts, Methodologies, Tools, and Applications Information Computing and Applications National Research Council Le Xie Hassan, Said Ali Edward A. Hirsch Waqar Ahmed Bui Thanh Hung Deborah D L Chung Satyasai Jagannath Nanda Obaid, Ahmed J. Juan, Angel A. Andriy Semenov Eduardo Bayro Corrochano Petrica Vizureanu Y. H. Hui Reza K. Haghi Inamuddin Management Association, Information Resources Baoxiang Liu

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natural and human induced changes in earth s interior land surface biosphere atmosphere and oceans affect all aspects of life understanding these changes requires a range of observations acquired from land sea air and space based platforms to assist nasa noaa and usgs in developing these tools the nrc was asked to carry out a decadal strategy survey of earth science and applications from space that would develop the key scientific questions on which to focus earth and environmental observations in the period 2005 2015 and beyond and present a prioritized list of space programs missions and supporting activities to address these questions this report presents a vision for the earth science program an analysis of the existing earth observing system and recommendations to help restore its capabilities an assessment of and recommendations for new observations and missions for the next decade an examination of and recommendations for effective application of those observations and an analysis of how best to sustain that observation and applications system

this book offers a comprehensive collection of research articles that utilize data in particular large data sets in modern power systems operation and planning as the power industry moves towards actively utilizing distributed resources with advanced technologies and incentives it is becoming increasingly important to benefit from the available heterogeneous data sets for improved decision making the authors present a first of its kind comprehensive review of big data opportunities and challenges in the smart grid industry this book provides succinct and useful theory practical algorithms and case studies to improve power grid operations and planning utilizing big data making it a useful graduate level reference for students faculty and practitioners on the future grid

the advancements in decision sciences theory and applications can be regarded as a continuously emerging field in all areas of interest including technology industry energy healthcare education agriculture social sciences and more managers in all disciplines face an endless list of complex issues every day one of the essential managerial skills is the ability to allocate and utilize limited resources appropriately in the efforts of achieving optimal performance efficiently this is no less important for those who work in the transportation sector the handbook of research on decision sciences and applications in the transportation sector explores the importance of decision sciences and the ways in which they apply to the transportation sector this book covers technologies and tools including machine learning mathematical modeling and simulation and their applications in such tasks as reducing fuel costs improving passenger flow and ensuring vehicle safety it is an essential reference source for managers professionals in the transport industry supply chain specialists safety officers it consultants executives practitioners scientists students researchers and academicians

this book constitutes the refereed proceedings of the third international computer science symposium in russia csr 2008 held in moscow russia june 7 12 2008 the 33 revised papers presented together with 5 invited papers and one opening lecture were carefully reviewed and selected from 103 submissions all major areas in computer science are addressed the theory track deals with algorithms protocols and data structures complexity and cryptography formal languages

automata and their applications to computer science computational models and concepts proof theory and applications of logic to computer science the application part comprises programming and languages computer architecture and hardware design symbolic computing and numerical applications application software artificial intelligence and robotics

nanoparticles have emerged as important players in modern techniques having applications from medicine and drug delivery to textiles and agriculture nanoscale materials are already integrated into our everyday lives in various forms such as sunscreen lotions containing nanoparticles dirt resistant glass with nanocoatings and nanodrugs this book reviews the recent developments in the applications of nanoscale materials in drug delivery agriculture cosmetics textiles and photonics it also covers other interesting topics in detail such as nanoencapsulation nanoparticle formation and surface functionalization of nanomaterials it is a valuable resource for practical use and offers up to date information given by specialists in each field it is a useful reference for materials scientists chemical engineers working in r d and academia and inquisitive readers who want to learn more about the applications of nanoparticles and nanomaterials in different fields

the conference dealt with one of the most important problems faced in international development in pure mathematics and applied mathematics development in engineering such as cryptography cyber security network operations research heat equation and so forth the aim of the conference was to provide a platform for researchers engineers academicians as well as industrial professionals to present their research results and development activities in pure and apply mathematics and its applied technology it provided opportunities for the delegates to exchange new ideas and application experiences to establish business or research relations and to find global partners for future collaboration

the field of carbon materials is huge and often difficult to comprehend but this book is easy to read and methodically covers the subject including presenting materials properties and performance data with clear illustrations and graphs references include relevant older and up to date sources of information the book is tutorial style in nature and is an excellent resource for senior undergraduates graduate students researchers and anyone who wants to learn more about carbon and incorporate carbon materials into new applications mrs bulletinelemental carbon materials take numerous forms including graphite carbon fiber carbon nanotube graphene carbon black activated carbon fullerene and diamond these forms differ greatly in the structure properties fabrication method and applications the applications of these carbon forms include electronic electromagnetic electrochemical environmental and biomedical applications carbon materials are a subject of intense research with strong relevance to both science and technology this book provides a tutorial style and up to date coverage of the carbon forms in addition to an introductory chapter on carbon materials the book includes chapters on graphite graphene carbon black activated carbon carbon fibers and carbon nanofibers nanotubes for example the chapter on graphite covers various materials in the graphite family

including polycrystalline graphite pyrolytic graphite turbostratic carbon intercalated graphite graphite oxide exfoliated graphite and flexible graphite in addition to their electronic and mechanical properties this book is suitable for use as a textbook for undergraduate and graduate students in science and engineering and as a reference book for professionals it is dedicated to the memory of the author's phd thesis advisor professor m s dresselhaus 1930 2017 of massachusetts institute of technology

this book gathers outstanding papers presented at the 5th international conference on data science and applications icdsa 2024 organized by soft computing research society scrs and malaviya national institute of technology jaipur india from 17 to 19 july 2024 the book is divided into four volumes and it covers theoretical and empirical developments in various areas of big data analytics big data technologies decision tree learning wireless communication wireless sensor networking bioinformatics and systems artificial neural networks deep learning genetic algorithms data mining fuzzy logic optimization algorithms image processing computational intelligence in civil engineering and creative computing

in recent years falsification and digital modification of video clips images as well as textual contents have become widespread and numerous especially when deepfake technologies are adopted in many sources due to adopted deepfake techniques a lot of content currently cannot be recognized from its original sources as a result the field of study previously devoted to general multimedia forensics has been revived the handbook of research on advanced practical approaches to deepfake detection and applications discusses the recent techniques and applications of illustration generation and detection of deepfake content in multimedia it introduces the techniques and gives an overview of deepfake applications types of deepfakes the algorithms and applications used in deepfakes recent challenges and problems and practical applications to identify generate and detect deepfakes covering topics such as anomaly detection intrusion detection and security enhancement this major reference work is a comprehensive resource for cyber security specialists government officials law enforcement business leaders students and faculty of higher education librarians researchers and academicians

this book offers insight into practical and methodological issues related to collaborative e research and furthers readers understanding of current and future trends in online research and the types of technologies involved provided by publisher

the combination of the latest developments in economic theory with contemporary information technologies may be considered as a powerful instrument for the processing of commercial data this book employs the ukrainian economy as a case study to examine the multifaceted aspects of financial and investment processes as well as the utilization of information technology mechanisms in company and industrial management the range of industrial sectors that have been investigated facilitates application of effective business analysis in enterprises furthermore the book provides detailed insights into transdisciplinary ideas

practices and examples that may be beneficial when examining evolutionary developments in this area additionally this book presents analytical techniques for decision making in business finance and innovation management

the goal of this book is to present a unified mathematical treatment of diverse problems in mathematics physics computer science and engineering using geometric algebra geometric algebra was invented by william kingdon clifford in 1878 as a unification and generalization of the works of grassmann and hamilton which came more than a quarter of a century before whereas the algebras of clifford and grassmann are well known in advanced mathematics and physics they have never made an impact in elementary textbooks where the vector algebra of gibbs heaviside still predominates the approach to clifford algebra adopted in most of the articles here was pioneered in the 1960s by david hestenes later together with garret sobczyk he developed it into a unified language for mathematics and physics sobczyk first learned about the power of geometric algebra in classes in electrodynamics and relativity taught by hestenes at arizona state university from 1966 to 1967 he still vividly remembers a feeling of disbelief that the fundamental geometric product of vectors could have been left out of his undergraduate mathematics education geometric algebra provides a rich general mathematical framework for the development of multilinear algebra projective and affine geometry calculus on a manifold the representation of lie groups and lie algebras the use of the horosphere and many other areas this book is addressed to a broad audience of applied mathematicians physicists computer scientists and engineers

titanium based alloys characteristics and applications is a comprehensive and interdisciplinary book that explores the unique properties and various applications of titanium alloys being a good reference book for students engineers and researchers worldwide regardless of their innovative applications in medical implants or industrial applications this book provides a thorough examination of titanium alloys and offers new innovative solutions this text aims to enhance comprehension of the future of materials science and engineering by offering a comprehensive examination of present breakthroughs and establishing a basis for stimulating future discoveries

meat science and applications compiles the most recent science technology and applications of meat products by products and meat processing it details worker safety waste management slaughtering carcass evaluation meat safety and animal handling issues from an international perspective essential concepts are illustrated with practical ex

this volume brings together innovative research new concepts and novel developments in the application of new tools for chemical engineers it presents significant research reporting on new methodologies and important applications in the field of chemical engineering highlighting theoretical foundations real world cases and future directions this book covers selected topics in a variety of areas including chemoinformatics and computational chemistry advanced

dielectric materials nanotechniques polymer composites it also presents several advanced case studies the topics discussed in this volume will be valuable for researchers practitioners professionals and students of chemistry material and chemical engineering

porous polymer science and applications aims to provide recent developments and advances in synthesis tuning parameters and applications of porous polymers this book brings together reviews written by highly accomplished panels of experts working in the area of porous polymers it encompasses basic studies and addresses topics of novel issues concerning the applications of porous polymers chapter topics span basic studies novel issues and applications addressing all aspects in a one stop reference on porous polymers applications discussed include catalysis gas storage energy and environmental sectors making this an invaluable guide for students professors scientists and r d industrial experts working in the field of material science and engineering and particularly energy conversion and storage additional features include provides a comprehensive introduction to porous polymers addressing design synthesis structure properties and characterization covers task specific applications of porous polymers explores the advantages and opportunities of these materials for most major fields of science and engineering outlines novel research areas and potential development and expansion areas

through expanded intelligence the use of robotics has fundamentally transformed a variety of fields including manufacturing aerospace medicine social services and agriculture continued research on robotic design is critical to solving various dynamic obstacles individuals enterprises and humanity at large face on a daily basis robotic systems concepts methodologies tools and applications is a vital reference source that delves into the current issues methodologies and trends relating to advanced robotic technology in the modern world highlighting a range of topics such as mechatronics cybernetics and human computer interaction this multi volume book is ideally designed for robotics engineers mechanical engineers robotics technicians operators software engineers designers programmers industry professionals researchers students academicians and computer practitioners seeking current research on developing innovative ideas for intelligent and autonomous robotics systems

this book constitutes the refereed proceedings of the second international conference on information computing and applications icica 2010 held in qinhuangdao china in october 2011 the 97 papers presented were carefully reviewed and selected from numerous submissions they are organized in topical sections on computational economics and finance computational statistics mobile computing and applications social networking and computing intelligent computing and applications internet and computing paralelle and distributed computing and system simulation and computing

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