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Industrial Accelerators and Their Applications CGAL Arrangements and Their Applications Complex Networks & Their Applications XII Computer Hardware Description Languages and their Applications Data-Driven Prediction for Industrial Processes and Their Applications Modern Technology of Synthetic Resins & Their Applications (2nd Revised Edition) Hydraulic Pumps & Motors and their Applications Complex Networks & Their Applications X Computer Hardware Description Languages and their Applications Fieldbus Systems and Their Applications 2003 Sensors and Their Applications XI Synchronized Phasor Measurements and Their Applications Microcomputers And Their Applications For Developing Countries Cyclotrons And Their Applications - Twelfth International Conference Hardware Description Languages and their Applications Deep learning techniques and their applications to the healthy and disordered brain - during development through adulthood and beyond Smart Textiles and Their Applications Proceedings of International Conference on Big Data, Machine Learning and their Applications Geosynthetics and Their Applications Complex Networks & Their Applications IX FCC Record Cyclotrons And Their Applications - Proceedings Of The 14th International Conference High Performance Textiles and Their Applications Complex Networks and Their Applications VIII Disruptive Wide Bandgap Semiconductors, Related Technologies, and Their Applications Functionalized Engineering Materials and Their Applications Complex Networks and Their Applications VII Complex Networks & Their Applications V Complex Networks & Their Applications VI Seventh International Conference on Cyclotrons and their Applications Polymer-Based Multifunctional Nanocomposites and Their Applications Computational Intelligence, Networked Systems and Their Applications Contemporary Methods in Bioinformatics and Biomedicine and Their Applications Simulations, Serious Games and Their Applications Jute Geotextiles and their Applications in Civil Engineering Advances in Data, Methods, Models and Their Applications in Geoscience Novel Advances in Microsystems Technologies and Their Applications Industrial Explosives and their Applications for Rock Excavation Cyclotrons And Their Applications - Proceedings Of The 13th International Conference, Vancouver, 1992 Mineral Solubilizing Microorganisms (MSM) and their Applications in Nutrient Bioavailability, Bioweathering and Bioremediation, Volume II

Industrial Accelerators and Their Applications

2012-06-27

this unique new book is a comprehensive review of the many current industrial applications of particle accelerators written by experts in each of these fields readers will gain a broad understanding of the principles of these applications the extent to which they are employed and the accelerator technology utilized the book also serves as a thorough introduction to these fields for non experts and laymen due to the increased interest in industrial applications there is a growing interest among accelerator physicists and many other scientists worldwide in understanding how accelerators are used in various applications the government agencies that fund scientific research with accelerators are also seeking more information on the many commercial applications that have been or can be developed with the technology developments they are funding many industries are also doing more research on how they can improve their products or processes using particle beams contents introduction to the beam business robert w hamm and marianne e hamm ion implantation for fabrication of semiconductor devices and materials michael i current electron beam materials processing donald e powers electron beam materials irradiators marshall r cleland accelerator production of radionuclides david j schlyer and thomas j ruth industrial aspects of ion beam analysis ragnar hellborg and harry j whitlow production and applications of neutrons using particle accelerators david l chichester nondestructive testing and inspection using electron linacs william a reed industrial use of synchrotron radiation love at second sight josef hormes and jeffrey warner readership physicists engineers and practitioners in accelerator technology and applications

CGAL Arrangements and Their Applications

2012-01-05

arrangements of curves constitute fundamental structures that have been intensively studied in computational geometry arrangements have numerous applications in a wide range of areas examples include geographic information systems robot motion planning statistics computer assisted surgery and molecular biology implementing robust algorithms for arrangements is a notoriously difficult task and the cgal arrangements package is the first robust comprehensive generic and efficient implementation of data structures and algorithms for arrangements of curves this book is about how to use cgal two dimensional arrangements to solve problems the authors first demonstrate the features of the arrangement package and related packages using small example programs they then describe applications i e complete standalone programs written on top of cgal arrangements used to solve meaningful problems for example finding the minimum area triangle defined by a set of points planning the motion of a polygon translating among polygons in the plane computing the offset polygon finding the largest common point sets under approximate congruence constructing the farthest point voronoi diagram coordinating the motion of two discs moving among obstacles in the plane and performing boolean operations on curved polygons the book contains comprehensive explanations of the solution programs many illustrations and detailed notes on further reading and it is supported by a website that contains downloadable software and exercises it will be suitable for graduate students and researchers involved in applied research in computational geometry and for professionals who require worked out solutions to real life geometric problems it is assumed that the reader is familiar with the c programming language and with the basics of the generic programming paradigm

Complex Networks & Their Applications XII

2014-05-21

2023-09-20

hardware description languages hdl have established themselves as one of the principal means of designing electronic systems the interest in and usage of hdl continues to spread rapidly driven by the increasing complexity of systems the growth of hdl driven synthesis the research on formal design methods and many other related advances this research oriented publication aims to make a strong contribution to further developments in the field the following topics are explored in depth bdd based system design and analysis system level formal verification formal reasoning on hardware languages for protocol specification vhdl hdl based design methods high level synthesis and text graphical hdl there are short papers covering advanced design capture and recent work in high level synthesis and formal verification in addition several invited presentations on key issues discuss and summarize recent advances in real time system design automatic verification of sequential circuits and languages for protocol specification

Computer Hardware Description Languages and their Applications

2018-08-20

this book presents modeling methods and algorithms for data driven prediction and forecasting of practical industrial process by employing machine learning and statistics methodologies related case studies especially on energy systems in the steel industry are also addressed and analyzed the case studies in this volume are entirely rooted in both classical data driven prediction problems and industrial practice requirements detailed figures and tables demonstrate the effectiveness and generalization of the methods addressed and the classifications of the addressed prediction problems come from practical industrial demands rather than from academic categories as such readers will learn the corresponding approaches for resolving their industrial technical problems although the contents of this book and its case studies come from the steel industry these techniques can be also used for other process industries this book appeals to students researchers and professionals within the machine learning and data analysis and mining communities

Data-Driven Prediction for Industrial Processes and Their Applications

2018-04-20

synthetic resin is typically manufactured using a chemical polymerization process this process then results in the creation of polymers that are more stable and homogeneous than naturally occurring resin since they are more stable and are cheaper various forms of synthetic resin are used in a variety of products such as plastics paints varnishes and textiles there are various kinds of synthetic resins acetal resins amino resins casein resins epoxy resins hydrocarbon resins polyamide resins etc the classic variety is epoxy resin manufactured through polymerization used as a thermoset polymer for adhesives and composites epoxy resin is two times stronger than concrete seamless and waterproof polyamide resin is another example of synthetic resins polyamide resins are products of polymerization of an amino acid or the condensation of a diamine with a dicarboxylic acid they are used for fibers bristles bearings gears molded objects coatings and adhesives the term nylon formerly referred specifically to synthetic polyamides as a class because of many applications in mechanical engineering nylons are considered engineering plastics resins are valued for their chemical properties and associated uses such as the production of varnishes adhesives lacquers paints rubber and pharmaceutical uses the applications of synthetic resins are seen in some important industries like paint industry adhesive industry the printing ink industry the textile industry the leather industry the floor polish paper agricultural industry etc as it can be seen that there is an enormous scope of application of resins hence it is one of the major field to venture synthetic resins are materials with properties similar to natural plant resins they are viscous liquids capable of hardening permanently chemically they are very different from resinous compounds secreted by plants synthetic resins are of several classes the growth of the synthetic resins market can be attributed to the high demand from the packaging sector due to favorable properties including lightweight and ability to act as an excellent barrier which allows for their usage in applications such as barrier packaging shrink wraps and pharmaceutical packaging the major contents of the book are

2023-09-20

3/15

properties manufacturing process formulae of synthetic resins and applications of synthetic resins derivatives of resins use of resins in polymer field alkyd resin technology epoxy resins manufacture of polystyrene based ion exchange phenol formaldehyde reactions polycarbonates resins polyester coating compositions synthetic rubbers modification with synthetic resins water soluble polymers cross linking of water soluble coatings etc this book also contains the list of manufacturers and dealers of raw materials list of chemical plant photographs of machinery with suppliers contact details sample plant layout and process flow chart the book will be very useful for new entrepreneurs manufacturers of synthetic resins who can easily extract the relevant formulation and manufacturing process from the book tags alkyl and hydroxy alkyl alkylcellulose applications of synthetic resins best small and cottage scale industries business plan for a startup business business start up emulsion polymers manufacture formulation of synthetic resins formulation of resins great opportunity for startup how to manufacture synthetic resins how to start a successful synthetic resin business how to start a synthetic resin production business how to start a synthetic resin production how to start emulsions of synthetic resin business how to start synthetic resin production industry in india indene coumarone resins manufacturing process of acrylonitrile resins manufacturing process of actel resins manufacturing process of alkyd resin manufacturing process of amino resins manufacturing process of casein resins manufacturing process of epoxy resins manufacturing process of ion exchange resins manufacturing process of phenolic resins manufacturing process of polyamide resins manufacturing process of polycarbonates resins manufacturing process of polyesters manufacturing process of polyurethane resins manufacturing process of polyvinyl acetate solid resins manufacturing process of silicone resins modern small and cottage scale industries most profitable synthetic resin business ideas new small scale ideas in synthetic resin production industry process of making synthetic resin adhesive processing of synthetic resin production of a synthetic resin profitable small and cottage scale industries profitable small scale synthetic resin manufacturing project for startups resin types and production rosin rosin derivatives rubber resins formulation setting up and opening your synthetic resin business shellac resins small scale commercial synthetic resin making small scale synthetic resin manufacturing projects small scale synthetic resin production line small start up business project start up india stand up india starting a synthetic resin production business start up business plan for synthetic resin production startup ideas startup project startup project for synthetic resin production startup project plan sucrose resins synthetic resin based profitable projects synthetic resin based small scale industries projects synthetic resin business synthetic resin making small business manufacturing synthetic resin manufacturing synthetic resin manufacturing industry in india synthetic resin manufacturing process synthetic resin manufacturing projects synthetic resin method synthetic resin production synthetic resin production business synthetic resin technology with formulation synthetic resin uses synthetic resins synthetic resins resin chemical synthetic resins and polymer emulsion synthetic resins technology book technological advances in the manufacture of resins technology of synthetic resins terpene resins types and applications of synthetic resin uses of rosin in the polymer field water reducible resins

Modern Technology of Synthetic Resins & Their Applications (2nd Revised Edition)

2018-03-06

the global hydraulic fluid power product market is booming it is a multi billion dollar industry spanning all across the world there is hardly any industry where fluid power application does not exist each and every application has a pump involved and many cases a hydraulic motor too therefore the global field population of hydraulic pumps and motors is enormous there are numerous hydraulic pump and motor manufacturers in the world in all the continents the significant of them has been mentioned in this book united states of america is the largest producer of hydraulic pumps and motors the fluid power industry involves millions of jobs across the globe user base market for hydraulic pumps and motors are almost unlimited vocational and engineering schools barely mention fluid power application and usage of hydraulic pumps and motors this book is designed to help the engineering schools to baptize their students with hydraulic pumps and motors and the industry as a whole the book will put in touch the students with the actual pump and motor and their many applications for those who are in fluid power industry the book will provide variety of applications where hydraulic pumps and motors are profusely used

2023-09-20

4/15

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Hydraulic Pumps & Motors and their Applications

2022-01-01

this book highlights cutting edge research in the field of network science offering scientists researchers students and practitioners a unique update on the latest advances in theory and a multitude of applications it presents the peer reviewed proceedings of the x international conference on complex networks and their applications complex networks 2021 the carefully selected papers cover a wide range of theoretical topics such as network models and measures community structure network dynamics diffusion epidemics and spreading processes resilience and control as well as all the main network applications including social and political networks networks in finance and economics biological and neuroscience networks and technological networks

Complex Networks & Their Applications X

2014-06-28

the topic areas presented within this volume focus on design environments and the applications of hardware description and modelling including simulation verification by correctness proofs synthesis and test the strong relationship between the topics of chdl 91 and the work around the use and re standardization of the vhdl language is also explored the quality of this proceedings and its significance to the academic and professional worlds is assured by the excellent technical programme here compiled

Computer Hardware Description Languages and their Applications

2003-12-18

a proceedings volume from the 6th ifac international conference puebla mexico 14 25 november 2005

Fieldbus Systems and Their Applications 2003

2018-05-04

with research continuing to expand and develop the marketplace for sensors and instrumentation remains one of the most significant for the united kingdom the european union and the economies of major developed nations sensors and their applications xi discusses novel research in the field of sensors and transducers and provides valuable insight into new and topical applications of the technology the book records the breadth and quality of the field and acts as a topical record of work in sensors and their applications it will serve as an invaluable reference for physicists engineers and chemists working in this area of technology for many years to come

Sensors and Their Applications XI

2008-08-15

2023-09-20

this book provides an account of the field of synchronized phasor measurement technology its beginning its technology and its principal applications it covers wide area measurements wam and their applications the measurements are done using gps systems and eventually will replace the existing technology the authors created the field about twenty years ago and most of the installations planned or now in existence around the world are based on their work

Synchronized Phasor Measurements and Their Applications

2019-03-13

microcomputers are an increasingly important tool in all aspects of development as the need to handle and assimilate vast quantities of information becomes ever more critical for both the international development community and the developing countries in addition the microcomputer represents the first significant technological advance that a dev

Microcomputers And Their Applications For Developing Countries

1991-02-22

the international conference held in berlin is the 12th in the series of meetings to provide the exchange of ideas and information by cyclotron builders and users throughout the world the international character is confirmed by the number of countries represented the general interest by the numbers of contributions and participants the berlin conference which was organized by the hahn meitner institut berlin had about 220 participants from 22 countries with about 165 contributions thereof 16 invited

Cyclotrons And Their Applications - Twelfth International Conference

2013-06-05

in the past few decades computer hardware description languages chdls have been a rapidly expanding subject area due to a number of factors including the advancing complexity of digital electronics the increasing prevalence of generic and programmable components of software hardware and the migration of vlsi design to high level synthesis based on hdls currently the subject has reached the consolidation phase in which languages and standards are being increasingly used at the same time as the scope is being broadened to additional application areas this book presents the latest developments in this area and provides a forum from which readers can learn from the past and look forward to what the future holds

Hardware Description Languages and their Applications

2023-02-07

smart textiles and their applications outlines the fundamental principles of applied smart textiles also reporting on recent trends and research developments scientific issues and proposed solutions are presented in a rigorous and constructive way that fully presents the various results prototypes and case studies obtained from academic and industrial laboratories worldwide after an introduction to smart textiles and their applications from the editor part one reviews smart textiles for medical purposes including their use in health monitoring treatment delivery and assistive technologies part

2023-09-20

two covers smart textiles for transportation and energy with chapters covering smart textiles for the monitoring of structures and processes as well as smart textiles for energy generation the final section considers smart textiles for protection security and communication and includes chapters covering electrochromic textile displays textile antennas and smart materials for personal protective equipment scientific issues and proposed solutions are presented in a rigorous and constructive way regarding various results prototypes and case studies obtained from academic and industrial laboratories worldwide useful for researchers and postgraduate students and also for existing companies and start ups that are developing products involving smart textiles authored and edited by an international team who are experts in the field ensure comprehensive coverage and global relevance

Deep learning techniques and their applications to the healthy and disordered brain - during development through adulthood and beyond

2016-04-22

this book contains high quality peer reviewed papers of the international conference on big data machine learning and their applications icbma 2019 held at motilal nehru national institute of technology allahabad prayagraj india during 29 31 may 2020 the book provides significant contributions in a structured way so that prospective readers can understand how these techniques are used in finding solutions to complex engineering problems the book covers the areas of big data machine learning bio inspired algorithms artificial intelligence and their applications

Smart Textiles and Their Applications

2020-12-22

presents topics that are based on field application areas for geosynthetics in civil engineering this book also includes case histories and practical aspects of the application of geosynthetics along with developments and references it is useful for students and engineers in search of approaches to solutions for civil engineering problems

Proceedings of International Conference on Big Data, Machine Learning and their Applications

2002

this book highlights cutting edge research in the field of network science offering scientists researchers students and practitioners a unique update on the latest advances in theory and a multitude of applications it presents the peer reviewed proceedings of the ix international conference on complex networks and their applications complex networks 2020 the carefully selected papers cover a wide range of theoretical topics such as network models and measures community structure network dynamics diffusion epidemics and spreading processes resilience and control as well as all the main network applications including social and political networks networks in finance and economics biological and neuroscience networks and technological networks

Geosynthetics and Their Applications

2020-12-19

these conference proceedings will be of interest to all accelerator scientists and engineers as well as those concerned with the application of cyclotrons in various fields the conference covers the latest developments in the science technology and use of cyclotrons and includes more than 25 invited talks by specialists in their respective fields contributions include papers on newly operating cyclotrons and facilities under construction compact cyclotrons cooler rings and post accelerators ion sources beam dynamics beam diagnostics cyclotron components systems and technologies as well as medical applications including radiotherapy and radioisotope production non medical applications radioactive beam facilities and new projects and proposals

Complex Networks & Their Applications IX

1996

high performance textiles represent one of the most dynamic sectors of the international textile and clothing industry with contributions from leading experts in the field this book provides an important overview of key developments in the field chapters cover the use of high performance textiles in such areas as protective clothing heat and fire protection medicine civil engineering and the energy sector reviews various approaches to modelling the geometry structure and mechanical and physical properties of advanced textile materials evaluates novel surface treatments involving plasma and laser technologies for a range of high performance textiles focuses on textiles for specific purposes with chapters devoted to textiles for heat and fire protection wound care industrial filtration geotextiles civil engineering and sustainable energy applications

FCC Record

1996-06-12

this book highlights cutting edge research in the field of network science offering scientists researchers students and practitioners a unique update on the latest advances in theory and a multitude of applications it presents the peer reviewed proceedings of the eighth international conference on complex networks and their applications complex networks 2019 which took place in lisbon portugal on december 10 12 2019 the carefully selected papers cover a wide range of theoretical topics such as network models and measures community structure and network dynamics diffusion epidemics and spreading processes resilience and control as well as all the main network applications including social and political networks networks in finance and economics biological and neuroscience networks and technological networks

Cyclotrons And Their Applications - Proceedings Of The 14th International Conference

2014-08-21

sic and gan devices have been around for some time the first dedicated international conference on sic and related devices icscrm was held in washington

2023-09-20

dc in 1987 but only recently the commercialization of sic and gan devices has happened due to its material properties si as a semiconductor has limitations in high temperature high voltage and high frequency regimes with the help of sic and gan devices it is possible to realize more efficient power systems devices manufactured from sic and gan have already been impacting different areas with their ability to outperform si devices some of the examples are the telecommunications automotive locomotive power and renewable energy industries to achieve the carbon emission targets set by different countries it is inevitable to use these new technologies this book attempts to cover all the important facets related to wide bandgap semiconductor technology including new challenges posed by it this book is intended for graduate students researchers engineers and technology experts who have been working in the exciting fields of sic and gan power devices

High Performance Textiles and Their Applications

2019-11-26

scientists and researchers are looking for new smart materials to replace old or conventional materials for better performance and for new applications the use of polymeric materials and nanomaterials is increasing due to their wide spectrum tunability and many properties it is now easier to formulate materials for special purposes using these materials than using conventional materials and methods many commercial products made from polymeric materials and nanomaterials are now in use and on the market this book presents a diverse selection of cutting edge research on the development of polymeric materials and nanomaterials for new and different applications these include electrical applications biomedical applications sensing applications coating applications and others a few chapters dedicated to materials for construction applications are also included discussions include the properties behavior preparation processing and characterization of various polymeric materials nanomaterials and their composites some of the chapter authors present theoretical studies of these systems which can help readers to develop a better understanding in this area

Complex Networks and Their Applications VIII

2018-09-12

this book highlights cutting edge research in the field of network science offering scientists researchers students and practitioners a unique update on the latest advances in theory together with a wealth of applications it presents the peer reviewed proceedings of the vii international conference on complex networks and their applications complex networks 2018 which was held in cambridge on december 11 13 2018 the carefully selected papers cover a wide range of theoretical topics such as network models and measures community structure and network dynamics diffusion epidemics and spreading processes and resilience and control as well as all the main network applications including social and political networks networks in finance and economics biological and neuroscience networks and technological networks

Disruptive Wide Bandgap Semiconductors, Related Technologies, and Their Applications

2018-09-03

this book highlights cutting edge research in the field of network science offering scientists researchers and graduate students a unique opportunity to catch up on the latest advances in theory and a multitude of applications it presents the peer reviewed proceedings of the fifth international workshop on complex networks their applications complex networks 2016 which took place in milan during the last week of november 2016 the carefully selected

2023-09-20

papers are divided into 11 sections reflecting the diversity and richness of research areas in the field more specifically the following topics are covered network models network measures community structure network dynamics diffusion epidemics and spreading processes resilience and control network visualization social and political networks networks in finance and economics biological and ecological networks and network analysis

Functionalized Engineering Materials and Their Applications

2018-12-05

this book highlights cutting edge research in the field of network science offering scientists researchers students and practitioners a unique update on the latest advances in theory and a multitude of applications it presents the peer reviewed proceedings of the vi international conference on complex networks and their applications complex networks 2017 which took place in lyon on november 29 december 1 2017 the carefully selected papers cover a wide range of theoretical topics such as network models and measures community structure network dynamics diffusion epidemics and spreading processes resilience and control as well as all the main network applications including social and political networks networks in finance and economics biological and ecological networks and technological networks

Complex Networks and Their Applications VII

2016-11-25

the 7th international cyclotron conference in addition to 25 invited papers a total of held in zurich from 19 22 august 1975 was atten 103 papers were submitted for presentation at the ded by 231 registered participants from 21 different conference in order to avoid parallel sessions countries visitors came from all 5 continents only 30 papers were selected for oral presentation showing the truly international character of the the rest of the papers were displayed with great so called cyclotron family after a slight slump success in two poster sessions with the authors around 1970 in science funding in general it is explaining in detail to interested participants encouraging to see that cyclotrons emerge again their reports the high light of the banquet was the with a promising future rich in applications for after dinner speech by m s livingston on the history an informal summary of the topics and highlights of of the cyclotron the hit of the ladies program was this conference the reader is referred to the back the visit to a local chocolate factory the rumour inside cover of these proceedings there henry goes that some conference participants too preferred blosser from michigan state university a very this visit to the session talks active pioneer in the cyclotron field put down his impressions in a matter of ten minutes after some the list of old timers who participated in all small pressure from the editor

Complex Networks & Their Applications V

2017-11-24

polymer based multifunctional nanocomposites and their applications provides an up to date review of the latest advances and developments in the field of polymer nanocomposites it will serve as a one stop reference resource on important research accomplishments in the area of multifunctional nanocomposites with a particular emphasis placed on the use of nanofillers and different functionality combinations edited and written by an expert team of researchers in the field the book provides a practical analysis of functional polymers nanoscience and nanotechnology in important and developing areas such as transportation engineering mechanical systems aerospace manufacturing construction materials and more the book covers both theory and experimental

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10/15

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results regarding the relationships between the effective properties of polymer composites and those of polymer matrices and reinforcements presents a thorough and up to date review of the latest advances and developments in the field of multifunctional polymer nanocomposites integrates coverage of fundamentals research and development and the range of applications for multifunctional polymers and their composites such as in the automotive aerospace biomedical and electrical industries supports further technological developments by discussing both theory and real world experimental data from academia and industry

Complex Networks & Their Applications VI

2013-11-21

this book constitutes the second part of the refereed proceedings of the international conference on life system modeling and simulation lsms 2014 and of the international conference on intelligent computing for sustainable energy and environment icsee 2014 held in shanghai china in september 2014 the 159 revised full papers presented in the three volumes of ccis 461 463 were carefully reviewed and selected from 572 submissions the papers of this volume are organized in topical sections on advanced neural network theory and algorithms advanced evolutionary computing theory and algorithms such as particle swarm optimization differential evolution ant colonies artificial life artificial immune systems and genetic algorithm fuzzy neural and fuzzy neuro hybrids intelligent modeling monitoring and control of complex nonlinear systems intelligent modeling and simulation of climate change communication and control for distributed networked systems

Seventh International Conference on Cyclotrons and their Applications

2018-09-14

this book gathers selected papers from the first international symposium on bioinformatics and biomedicine issues related to medicine and health care constitute one of the grand challenges faces by the mankind and this naturally implies a growing interest in these problems among both researchers and scholars politicians and policymakers as well as economist the present values which gather selected papers from the first international symposium on bioinformatics and biomedicine bioinfomed 2020 is a recent response to this interests in the subsequent sections and chapters it covers a multitude of various topics related to bioinformatics biomedicine bioengineering as well as a broadly perceives healthcare issues related to decision making in bioinformatics biomedicine and health care mathematical modelling in biomedicine and health care artificial intelligence in biomedicine and health care uncertainty and imprecision notably intuitionistic fuzzy sets with applications in bioinformatics and biomedicine biomedical approaches and applications biomedical imaging and image processing and excitable structures and motor activity are covered

Polymer-Based Multifunctional Nanocomposites and Their Applications

2014-10-01

this book presents the state of the art technology in serious games which is driven extensive by applications and research in simulation the topics in this book include 1 fashion simulation 2 chinese calligraphy ink diffusion simulation 3 rehabilitation 4 long vehicle turning simulation 5 marine traffic conflict control 6 cnc simulation 7 special needs education the book also addresses the fundamental issues in simulation and serious games such as rapid collision detection game engines or game development platforms the target audience for this book includes scientists engineers and practitioners involved

2023-09-20

in the field of serious games and simulation the major part of this book comprises of papers presented at the 2012 asia europe workshop on serious games and simulation held in nanyang technological university singapore may 9 2012 all the contributions have been peer reviewed and by scientific committee members with report about quality content and originality

Computational Intelligence, Networked Systems and Their Applications

2022-03-11

this book presents a first of its kind exposition on the emerging technology of jute fiber geotextiles the book covers the characteristics of jute fiber and jute yarns types and functions of jute geotextiles and the mechanism of control of surficial soil with jute geotextiles the content also includes applications such as the mechanisms of functioning of jute geotextiles in strengthening road sub grade and controlling river bank erosion stabilization of earthen embankments management of settlement of railway tracks and consolidation of soft soil by use of pre fabricated vertical jute drains pvjd geotextile standards properties and test methods variants of jute geotextiles economical and environmental advantages in different applications are covered along with a few case studies a chapter on soil basics is included to enable clearer understanding of soil mechanisms the book can be used as a reference work or as primary or supporting text for graduate and professional coursework it will also prove useful to researchers and practicing engineers looking for a comprehensive treatise on jute geotextiles

Contemporary Methods in Bioinformatics and Biomedicine and Their Applications

2013-11-08

with growing attention on global environmental and climate change geoscience has experienced rapid change and development in the last three decades many new data methods and modeling techniques have been developed and applied in various aspects of geoscience the chapters collected in this book present an excellent profile of the current state of various data analysis methods and modeling techniques and demonstrate their applications from hydrology geology and paleogeomorphology to geophysics environmental and climate change the wide range methods and techniques covered in the book include information systems and technology global position system gps digital sediment core image analysis fuzzy set theory for hydrology spatial interpolation spectral analysis of geophysical data gis based hydrological models high resolution geological models 3d sedimentology change detection from remote sensing etc besides two comprehensive review articles most chapters focus on in depth studies of a particular method or technique

Simulations, Serious Games and Their Applications

2016-09-26

microsystems technologies have found their way into an impressive variety of applications from mobile phones computers and displays to smart grids electric cars and space shuttles this multidisciplinary field of research extends the current capabilities of standard integrated circuits in terms of materials and designs and complements them by creating innovative components and smaller systems that require lower power consumption and display better performance novel advances in microsystems technologies and their applications delves into the state of the art and the applications of microsystems and microelectronics related technologies featuring contributions by academic and industrial researchers from around the world this book examines organic and flexible electronics from polymer solar cell to flexible interconnects for the co integration of micro electromechanical systems mems with complementary

2023-09-20

12/15

metal oxide semiconductors cmos discusses imaging and display technologies including mems technology in reflective displays the fabrication of thin film transistors on glass substrates and new techniques to display and quickly transmit high quality images explores sensor technologies for sensing electrical currents and temperature monitoring structural health and critical industrial processes and more covers biomedical microsystems including biosensors point of care devices neural stimulation and recording and ultra low power biomedical systems written for researchers engineers and graduate students in electrical and biomedical engineering this book reviews groundbreaking technology trends and applications in microelectronics its coverage of the latest research serves as a source of inspiration for anyone interested in further developing microsystems technologies and creating new applications

Jute Geotextiles and their Applications in Civil Engineering

2011-12-22

industrial explosives and their applications for rock excavation focuses on applications of industrial explosives in civil and mining engineering works explosives and their actions are explained in terms of basics principles and related chemistry explosives and initiation devices are described including their characteristics geometry and timing aspects of the blast design designing blasts for rock excavation works is explained including devices for obtaining large sized blocks construction of yards and excavation of big foundations finally criteria for the mitigation of the associated seismic disturbances are summarized the book provides an updated vision of industrial explosives including the best technical advice for rock excavation contains harmonized preliminary modules aimed at introducing basic concepts of chemistry and physics applied to the drilling and blasting technique defines balanced mix of theory capable of providing skills to design an efficient blasting covers excavation problems from different points of view and in different contexts and addresses issues of drilling and loading blast holes industrial explosives and their applications for rock excavation is aimed at graduate students researchers and professionals in mining engineering and explosives technology

Advances in Data, Methods, Models and Their Applications in Geoscience

2017-07-28

this volume describes the latest developments in the design construction and operation of cyclotrons from compact machines producing intense beams for isotope production cancer therapy and industrial use to the larger versions giving higher energy beams of ions of various elements for nuclear and particle physics important topics include ecr ion sources superconducting magnets and radiofrequency cavities beam dynamics and diagnostics beam cooling rings control systems and various medical and industrial applications

Novel Advances in Microsystems Technologies and Their Applications

2024-06-28

bioweathering is the dissolution of rocks and mineral substrates carried out by microorganisms along with mechanical and chemical processes the application of bacteria in biomining is a biotechnological approach for the extraction and recovery of metals from ores microbes interact with minerals as a strategy to colonize and exploit habitats where the environmental parameters disadvantage other microorganisms and they demonstrate the capacity to scavenge critical elements with low bioavailability such as iron and phosphorus there is an ongoing need to improve soil fertility and crop production particularly in dry places to remediate toxic soils and clean stone artworks and structures a more complete understanding of the ecology of mineral

2023-09-20

weathering processes mediated by the microbiome may provide a significant opportunity for researchers to develop novel solutions to developing challenges in agriculture the environment and industry

Industrial Explosives and their Applications for Rock Excavation

1993-01-08

Cyclotrons And Their Applications - Proceedings Of The13th International Conference, Vancouver, 1992

2024-04-18

Mineral Solubilizing Microorganisms (MSM) and their Applications in Nutrient Bioavailability, Bioweathering and Bioremediation, Volume II

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