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this book provides a general overview about research on ubiquitous and pervasive computing and its applications discussing the recent progress in this area and pointing out to scholars what they should do best practices and should not do bad practices provided by publisher ground water resources are receiving global attention as human population growth and development cause significant changes to the earth system it plays a major role in ensuring livelihood security in many parts of south asia and its contribution to poverty alleviation is substantial the complex nature of ground water problems in the indian sub continent requires a precise delineation of the ground water regimes in different hydro geological settings and socio economic conditions and is a primary necessity for sustainable and equitable management strategies to respond to ground water over exploitation and deteriorating water quality must be based on a new approach practical policies and various solution options urgently need to be formulated and implemented to prevent the development problems there is pressing need to evolve workable methods and approaches based on modern scientific researches on ground water resources as well as to build a social framework including community participation at all levels for a ground water development system the community participation in water pumping policies incentives of efficient use affordability of low income users and other vulnerable groups water awareness are prime factors for success of any ground water based water supply project who says that the healthcare engineering is confined to biomedical engineers what is the scope of various engineering disciplines in healthcare healthcare engineering is the engineering involved in all aspects of healthcare this book gathers information from diverse disciplines ranging from basic sciences to engineering involving mining and management involving acumen covering topics from emerging technologies in these areas the impacts of medical devices sensor development stent design nitinol smart drug delivery systems and rehabilitation engineering as well as the applications of these technologies to mining industries for fatigue monitoring and sustainable mining the book will be of immense interest to undergraduates postgraduates researchers and stakeholders from various industries and organizations working in the area of health care engineering arsenic as is a widely distributed element in the environment having no known useful physiological function in plants or animals historically this metalloid has been known to be used widely as a poison effects of arsenic have come to light in the past few decades due to its increasing contamination in several parts of world with the worst situation being in bangladesh and west bengal in india this edited volume brings together diverse group of environmental science sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination the book covers sources of arsenic contamination and its impact on human health and on prospective remediation both by bioremediation and phytoremediation applications of advance techniques such as genetic engineering and nanotechnology are also discussed to resolve the issue of arsenic contamination in ground water and river basins the book sheds light on this global environmental issue and proposes solutions to remove contamination through a multi disciplinary lens and case studies from bangladesh and india the book may serve as a reference to environment and sustainability researchers students and policy makers it delivers an outline to graduate undergraduate students and researchers as well as

academicians who are working on arsenic toxicity with respect to remediation and health issues this book describes a set of methods for finding more for less solutions of various kind of fuzzy transportation problems inspired by more for less approaches to the basic transportation problem initiated by abraham charnes and his collaborators during 1960s and 1970s this book describes new methods developed by the authors to solve different types of problems including symmetric balanced fuzzy transportation problems symmetric intuitionistic fuzzy transportation problems with mixed constraints and symmetric intuitionistic fuzzy linear fractional transportation problems with mixed constraints it offers extensive details on their applications to some representative problems and discusses some future research directions this book constitutes the refereed proceedings of the 10th international conference on smart homes and health telematics icost 2012 held in artimino tuscany italy june 12 15 2012 the 25 revised full papers presented together with 22 short papers were carefully reviewed and selected from 74 submissions the papers are categorized into a number of sessions that include user engagement for improved adoption of assistive technologies self management and tele rehabilitation advances in remote monitoring and activity recognition sensor networks for unobstrusive monitoring solutions and real world aware systems this book constitutes revised selected papers from the 14th conference on advanced information technologies for management aitm 2016 and the 11th conference on information systems management ism 2016 held as part of the federated conference on computer science and information systems fedcsis which took place in gdansk poland in september 2016 the 13 papers presented in this volume were carefully reviewed and selected from 51 submissions they were organized in topical sections named information technology and systems for knowledge management information technology and systems for business transformation and implementation and evaluation of information systems this book presents a simplified deliberation of fractional calculus which will appeal not only to beginners but also to various applied science mathematicians and engineering researchers the text develops the ideas behind this new field of mathematics beginning at the most elementary level before discussing its actual applications in different areas of science and engineering this book shows that the simple classical laws based on newtonian calculus which work quite well under limiting and idealized conditions are not of much use in describing the dynamics of actual systems as such the application of non newtonian or generalized calculus in the governing equations allows the order of differentiation and integration to take on non integer values the 3rd international conference on foundations and frontiers in computer communication and electrical engineering is a notable event which brings together academia researchers engineers and students in the fields of electronics and communication computer and electrical engineering making the conference a perfect platform to share experience f chemical solution synthesis for materials design and thin film device applications presents current research on wet chemical techniques for thin film based devices sections cover the quality of thin films types of common films used in devices various thermodynamic properties thin film patterning device configuration and applications as a whole these topics create a roadmap for developing new materials and incorporating the results in device fabrication this book is suitable for graduate undergraduate doctoral students and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes provides the different wet chemical routes for materials synthesis along with the most relevant thin film structured materials for device applications discusses patterning and solution processing of inorganic thin films along with solvent based processing techniques includes an overview of key processes and methods in

thin film synthesis processing and device fabrication such as nucleation lithography and solution processing in our increasingly interconnected world low resource languages face the threat of oblivion these linguistic gems often spoken by marginalized communities are at risk of fading away due to limited data and resources the neglect of these languages not only erodes cultural diversity but also hinders effective communication education and social inclusion academics practitioners and policymakers grapple with the urgent need for a comprehensive solution to preserve and empower these vulnerable languages empowering low resource languages with nlp solutions is a pioneering book that stands as the definitive answer to the pressing problem at hand it tackles head on the challenges that low resource languages face in the realm of natural language processing nlp through real world case studies expert insights and a comprehensive array of topics this book equips its readers academics researchers practitioners and policymakers with the tools strategies and ethical considerations needed to address the crisis facing low resource languages this book was first published in 1991 it considers the concepts and theories relating to mostly aqueous systems of activity coefficients this book focuses on rabindranath tagore as a social and political thinker revolving around tagore s ideas on the seeds of civil society nation identities and communities in the indic tradition the author deconstructs tagore s concepts against the appropriate resurgent and triumphalist western concepts in the updated western social thought and theories the book examines tagore s understanding of the nature of the civil social sphere in india and analyzes the relevance of his civil social concepts against the backdrop of colonialism in india it also discusses his views on nation and nationalism in india and his insights into the problems and prospects of intercommunity particularly hindu muslim relations in india applying current social science and western literature in an unprecedented manner to interpret tagore this book will be of great interest to scholars teachers and students of politics nationalism postcolonialism history comparative literature sociology religious studies and south asian studies a unique book on the present status of solvents and solutions with important problems related to their structure and properties the literature on the properties of solvents and solutions used in academic research and in a wide range of industries has grown enormously during the last four decades and is scattered in different specialized journals solvents and solutions is a groundbreaking text that offers a systematic compilation of important problems related to selected properties of solvents and solutions based on the literature published so far the author places emphasis on explaining the basic concepts involved in understanding the properties and behavior of various solvents and solutions of electrolytes and nonelectrolytes in a consistent manner after a description of the general characteristics of structure of solvents and solutions and the solubility of electrolytes and nonelectrolytes under normal temperature and pressure conditions the book first deals with different aspects of the density and the refractive index of solvents and dilute as well as concentrated solutions and finally with the transport i e viscosity and electric conductivity and thermal properties of solvents and solutions solvents and solutions is the first text devoted to the description and discussion of their properties since the publication of a monograph on the physical properties of aqueous electrolyte solutions more than three decades ago the main features of this book are reflects developments in the investigation of solvents and solutions during the last three decades outlines basic concepts involved in understanding the properties and behavior of solvents and solutions describes and discusses different properties of ionic liquids as solvents and the behavior of their mixtures with other commonly used solvents contents of different chapters are not only self contained but the contents are practically independent of each other written as a practical guide for

researchers who are looking for an up-to-date overview of the physical and transport properties of solvents and solutions and as a reference source for workers in chemical industries and related fields and for graduate students of chemical engineering and physical chemistry the threat of natural resource depletion due to high energy demands has become a key concern in both the developed and developing worlds to alleviate these concerns researchers around the world are exploring sustainable methods for generating energy innovative solutions in fluid particle systems and renewable energy management presents phenomenological experimental and theoretical research as well as market criteria and business models concerning the development of small and large scale chemical and energy plants associating academic and industrial experiences this book highlights current topics in sustainable energy management and development with an emphasis on obtaining liquid gaseous and solid fuels using residues and energetic biomasses academicians researchers and technology developers will find this book useful in furthering their own knowledge and research in this field a pivotal publication in the field of engineering this title covers a range of topics including among others cellulosic feedstock agricultural biomass fluid dynamics gasification processes energy extraction from raw materials and environmental sustainability carbon based nanofillers and their rubber nanocomposites fundamentals and applications provides the synthetic routes characterization structural properties and effect of nano fillers on rubber nanocomposites the synthesis and characterization of all carbon based fillers is discussed along with their morphological thermal mechanical dynamic mechanical and rheological properties the book also covers the theory modeling and simulation aspects of these nanocomposites and their various applications users will find a valuable reference source for graduates and post graduates engineers research scholars polymer engineers polymer technologists and those working in the biomedical field reviews rubber nanocomposites specifically carbon associated nanomaterials nanocarbon black graphite graphene carbon nanotubes fullerenes diamond presents the synthesis and characterization of carbon based nanocomposites relates the structure of these nanocomposites to their function as rubber additives and their many applications this monograph covers different aspects related to utilization of alternative fuels in internal combustion ic engines with a focus on biodiesel dimethyl ether alcohols biogas etc the focal point of this book is to present engine combustion performance and emission characteristics of ic engines fueled by these alternative fuels a section of this book also covers the potential strategies of utilization of these alternative fuels in an energy efficient manner to reduce the harmful pollutants emitted from ic engines it presents the comparative analysis of different alternative fuels in a variety of engines to show the appropriate alternative fuel for specific types of engines this book will prove useful for both researchers as well as energy experts and policy makers this book presents architectural solutions of wireless network and its variations it basically deals with modeling analysis design and enhancement of different architectural parts of wireless network the main aim of this book is to enhance the applications of wireless network by reducing and controlling its architectural issues the book discusses efficiency and robustness of wireless network as a platform for communication and data transmission and also discusses some challenges and security issues such as limited hardware resources unreliable communication dynamic topology of some wireless networks vulnerability and unsecure environment this book is edited for users academicians and researchers of wireless network broadly topics include modeling of security enhancements optimization model for network lifetime modeling of aggregation systems and analyzing of troubleshooting techniques this book provides comprehensive coverage and understanding of clinical problem solving in

healthcare especially user driven healthcare using concerted experiential learning in conversations between multiple users and stakeholders primarily patients health professionals and other actors in a care giving collaborative network across a web interface this research topic is a part of the delft 2021 1st sociohydrology conference series to view the other sessions please follow the links below innovating a new knowledge base for water justice studies hydrosocial sociohydrology and beyond scale issues in human water systems water resources and human behavior analysis and modeling of coupled water human systems feedbacks and coevolution innovative sensing observing measuring and analysing human water data pluralistic water research integrates the hydrological and the social to provide sustainable solutions to water crises while relying upon robust quantitative modelling sociohydrology captures crises across many waters surface ground and interstitial along quantity and quality dimensions hydrosocial unfurls power hierarchies in access to safe and required quota of water be it for drinking or irrigation purposes the success of engineering solutions laying out hard interventions such as solar powered irrigation dams high yielding crop varieties water treatment plants and water distributions and purifications depend on soft socio political cultural and psychological variables like the political landscape community behaviours and governance arrangements how these soft parameters limit or advance the effect of hard interventions await more enhanced modelling and place based qualitative analyses to disentangle various cause effect pathways while historical and process based sociohydrology accommodates detailed temporal datasets and causal relationships across human water systems the hydrosocial paradigm reconciles non modern anti hegemonic water techniques and knowledge systems animating local agencies within specific hydroscares this issue is dedicated to capture real time innovations through which water challenges have been confronted it intends to unravel storylines along actionable water projects reflecting on mediations across multiple actors and networks in specific spatio temporal and cultural contexts finally drawing our attention to the correlation between projected promises and actual realities situated at the crossroads of boundary work we invite articles that will deploy a range of interdisciplinary frameworks like ranas risk attitude norms ability and self regulation apie awareness participation involvement and engagement hupe historical urban political ecology etc to demonstrate coupled sociohydrological and hydrosocial realities and in turn getting informed by empirical insights emanating from these actual water interventions the final aim of the special issue is not to showcase water just actual interventions but to elicit a rigorous mapping of sustainable processes facilitating collective co production of resilient water trajectories pollution has no borders this popular 70 s saying from early ecologists is surprisingly still true nowadays despite overwhelming scientific evidence and public awareness of the occurrence of artificial toxic substances in water food air living organisms and the environment this book presents advanced reviews on pollutant occurrence transfer toxicity and remediation the chapter on school air quality by dambruoso et al highlights the overlooked health issue of airborne pollutants in buildings children are particularly threatened because they spend 90 of their time indoors even in summer the chapter on industrial wastewater pollutants by dsikowitzky and schwarzbauer reviews pollutants from textile petrochemical paper tire chemical and pharmaceutical plants the authors describe advanced analytical methods and ecotoxicity tests industrial pollutants include dioxins and furans that are also reviewed in the chapter by mudhoo et al the chapter on fly ash by gianoncelli et al presents many techniques to treat fly ash and in turn decrease pollutant concentrations the authors also explain that fly ash can be recycled in agriculture buildings and geopolymers the chapter on antifouling paints used for ship protection by

sousa et al highlights the occurrence of toxic organotins in human organs such as heart liver and breast milk the chapter on surfactants by rebello et al focuses on safety concerns for humans and the ecosystems remediation techniques and green surfactants are presented the chapters on toxic metals by nava ruíz and méndez armenta abarikwu and ristić et al describe sources monitoring and diseases induced by lead mercury cadmium and thallium the chapter on carcinogenic nitrosamines by li et al presents techniques and materials such as zeolites to remediate liquids and smoke containing nitrosamines this book provides a unique account of cross sectoral innovations through efficient partnerships based on the hands on experience of internationally renowned contributors specialised in the field of science of delivery the challenges and lessons learned from large development initiatives based in asia and from the work undertaken by international research institutions such as the fao are brought together in this book to benefit development agencies policy makers corporates post graduate students farmers organizations and those involved in supplying agricultural inputs and or buying agricultural produce particularly in developing countries within asia and africa through a number of case studies the book describes how the consortium approach of capacity building for equitable and efficient benefits collective action and convergence will benefit millions of small farm holders in different regions of asia the proliferation of powerful but cheap devices together with the availability of a plethora of wireless technologies has pushed for the spread of the wireless internet of things wiot which is typically much more heterogeneous dynamic and general purpose if compared with the traditional iot the wiot is characterized by the dynamic interaction of traditional infrastructure side devices e g sensors and actuators provided by municipalities in smart city infrastructures and other portable and more opportunistic ones such as mobile smartphones opportunistically integrated to dynamically extend and enhance the wiot environment a key enabler of this vision is the advancement of software and middleware technologies in various mobile related sectors ranging from the effective synergic management of wireless communications to mobility adaptivity support in operating systems and differentiated integration and management of devices with heterogeneous capabilities in middleware from horizontal support to crowdsourcing in different application domains to dynamic offloading to cloud resources only to mention a few the book presents state of the art contributions in the articulated wiot area by providing novel insights about the development and adoption of middleware solutions to enable the wiot vision in a wide spectrum of heterogeneous scenarios ranging from industrial environments to educational devices the presented solutions provide readers with differentiated point of views by demonstrating how the wiot vision can be applied to several aspects of our daily life in a pervasive manner e health applications such as tele medicine tele radiology tele ophthalmology and tele diagnosis are very promising and have immense potential to improve global healthcare they can improve access equity and quality through the connection of healthcare facilities and healthcare professionals diminishing geographical and physical barriers one critical issue however is related to the security of data transmission and access to the technologies of medical information currently medical related identity theft costs billions of dollars each year and altered medical information can put a person s health at risk through misdiagnosis delayed treatment or incorrect prescriptions yet the use of hand held devices for storing accessing and transmitting medical information is outpacing the privacy and security protections on those devices researchers are starting to develop some imperceptible marks to ensure the tamper proofing cost effective and guaranteed originality of the medical records however the robustness security and efficient image archiving and retrieval of medical data information

against these cyberattacks is a challenging area for researchers in the field of e health applications intelligent data security solutions for e health applications focuses on cutting edge academic and industry related research in this field with particular emphasis on interdisciplinary approaches and novel techniques to provide security solutions for smart applications the book provides an overview of cutting edge security techniques and ideas to help graduate students researchers as well as it professionals who want to understand the opportunities and challenges of using emerging techniques and algorithms for designing and developing more secure systems and methods for e health applications investigates new security and privacy requirements related to ehealth technologies and large sets of applications reviews how the abundance of digital information on system behavior is now being captured processed and used to improve and strengthen security and privacy provides an overview of innovative security techniques which are being developed to ensure the guaranteed authenticity of transmitted shared or stored data information this book offers a timely review of modern technologies for health with a special emphasis on wireless and wearable technologies gis tools and machine learning methods for managing the impacts of pandemics it describes new strategies for forecasting evolution of pandemics optimizing contract tracing and for detection and diagnosis of diseases among others written by researchers and professionals with different backgrounds this book offers a extensive information and a source of inspiration for physiologists engineers it scientists and policy makers in the health and technology sector digital innovation for healthcare in covid 19 pandemic strategies and solutions provides comprehensive knowledge and insights on the application of information technologies in the healthcare sector sharing experiences from leading researchers and academics from around the world the book presents innovative ideas solutions and examples to deal with one of the major challenges of the world a global problem with health economic and political dimensions advanced information technologies can play a key role in solving problems generated by the covid 19 outbreak the book addresses how science technology and innovation can provide advances and solutions to new global health challenges this is a valuable resource for researchers clinicians healthcare workers policymakers and members of the biomedical field who are interested in learning how digital technologies can help us avoid and solve global disease dissemination presents real world cases with experiences of applications of healthcare solutions during the pandemic of covid 19 discusses new approaches theories and tools developed during an unprecedented health situation and how they can be used afterwards encompasses information on preparedness for future outbreaks to make less costly and more effective healthcare responses to crises the book aims to identify key issues and developments in asean 5 that illustrate the transition of this region towards a knowledge based economy the book contributes to understanding the opportunities and challenges faced by emerging economies it explains the transition process from a knowledge based perspective showing how knowledge creation and innovation contribute to the competitiveness of companies and sectors in this region the book takes a distinctly asean perspective by discussing examples of the transition process from all asean 5 nations that show how this region is attempting to link up to the global knowledge economy of the 21st century to achieve these aims the book is divided into three parts preceded by an introductory chapter explaining the logic objectives and contributions of the book part i discusses asean 5 as an emerging hub in the global economy part ii discusses the global links of the asean region part iii highlights innovation support in the asean region each part identifies key developments and discusses relevant challenges and opportunities regarding the economic transition process based on examples

for the various asean 5 nations the book contributes to the literature on emerging economies by explaining their challenges and opportunities of the catching up process from a knowledge based perspective it is definitely a must read as the pharmaceutical industry continues to advance new techniques in drug design are emerging in order to deliver optimum care to patients the development of innovative pharmacological techniques has become a widely studied topic applied case studies and solutions in molecular docking based drug design is a pivotal reference source for the latest scholarly research on the progress of pharmaceutical design and computational approaches in the field of molecular docking highlighting innovative research perspectives and real world applications this book is ideally designed for professionals researchers practitioners and medical chemists actively involved in computational chemistry and pharmaceutical sciences this book includes over three hundred and seventy five short papers presented during the second emcei which was held in sousse tunisia in october 2019 after the success of the first emcei in 2017 the second installment tackled emerging environmental issues together with new challenges e g by focusing on innovative approaches that contribute to achieving a sustainable environment in the mediterranean and surrounding regions and by highlighting to decision makers from related sectors the environmental considerations that should be integrated into their respective activities presenting a wide range of environmental topics and new findings relevant to a variety of problems in these regions this volume will appeal to anyone working in the subject area and particularly to students interested in learning more about new advances in environmental research initiatives in view of the worsening environmental degradation of the mediterranean and surrounding regions which has made environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare the book is devoted to varieties of linear singular integral equations with special emphasis on their methods of solution it introduces the singular integral equations and their applications to researchers as well as graduate students of this fascinating and growing branch of applied mathematics dyes are versatile compounds that have been successfully used in textile printing rubber cosmetics plastic pharmaceutical and leather industries to color the products dye using industries particularly textile or printing industries are responsible for the generation of a great amount of colored wastewater that are polluting and threatening the environment many of these dyes are carcinogenic mutagenic and teratogenic as well as harmful to human aquatic life and other living things and their elimination from wastewater is highly essential various approaches have been implemented in the efforts to mitigate the issue related to textile wastewater such as adsorption biological processes advanced oxidation processes membrane technology etc in this volume 1 the application of various types of polymers in different wastewater treatment technologies are presented the synthesis procedure of some polymers the polymer modification the effect of operational parameters on polymer efficiency the interactions between polymers dyes etc are discussed list of members in each volume the first international conference on advancement of computer communication and electrical technology focuses on key technologies and recent progress in computer vision information technology applications vlsi signal processing power electronics drives and application of sensors transducers etc topics in this conference include computer science this conference encompassed relevant topics in computer science such as computer vision intelligent system networking theory and application of information technology communication engineering to enhance the theory technology of communication engineering accet 2016 highlighted the state of the art research work in the field of vlsi optical communication and signal processing of various data formatting research work in the

field of microwave engineering cognitive radio and networks are also included electrical technology the state of the art research topic in the field of electrical instrumentation engineering is included in this conference such as power system stability protection non conventional energy resources electrical drives and biomedical engineering research work in the area of optimization and application in control measurement instrumentation are included as well microsoft office specialist microsoft office word 2003 expert

Designing Solutions-Based Ubiquitous and Pervasive Computing: New Issues and Trends

2010-04-30

this book provides a general overview about research on ubiquitous and pervasive computing and its applications discussing the recent progress in this area and pointing out to scholars what they should do best practices and should not do bad practices provided by publisher

Ground Water Development - Issues and Sustainable Solutions

2018-12-07

ground water resources are receiving global attention as human population growth and development cause significant changes to the earth system it plays a major role in ensuring livelihood security in many parts of south asia and its contribution to poverty alleviation is substantial the complex nature of ground water problems in the indian sub continent requires a precise delineation of the ground water regimes in different hydro geological settings and socio economic conditions and is a primary necessity for sustainable and equitable management strategies to respond to ground water over exploitation and deteriorating water quality must be based on a new approach practical policies and various solution options urgently need to be formulated and implemented to prevent the development problems there is pressing need to evolve workable methods and approaches based on modern scientific researches on ground water resources as well as to build a social framework including community participation at all levels for a ground water development system the community participation in water pumping policies incentives of efficient use affordability of low income users and other vulnerable groups water awareness are prime factors for success of any ground water based water supply project

Transdisciplinary Approaches to Healthcare Solutions during COVID-19

2023-11-13

who says that the healthcare engineering is confined to biomedical engineers what is the scope of various engineering disciplines in healthcare healthcare engineering is the engineering involved in all aspects of healthcare this book gathers information from diverse disciplines ranging from basic sciences to engineering involving mining and management involving acumen covering topics from emerging technologies in these areas the impacts of medical devices sensor development stent design nitinol smart drug delivery systems and rehabilitation engineering as well as the applications of these technologies to mining industries for fatigue monitoring and sustainable mining the book will be of immense interest to undergraduates postgraduates researchers and stakeholders from various industries and organizations working in the area of health care engineering

Arsenic Toxicity: Challenges and Solutions

2021-02-15

arsenic as is a widely distributed element in the environment having no known useful physiological function in plants or animals historically this metalloid has been known to be used widely as a poison effects of arsenic have come to light in the past few decades due to its increasing contamination in several parts of world with the worst situation being in bangladesh and west bengal in india this edited volume brings together diverse group of environmental science sustainability and health researchers to address the challenges posed by global mass poisoning caused by arsenic water contamination the book covers sources of arsenic contamination and its impact on human health and on prospective remediation both by bioremediation and phytoremediation applications of advance techniques such as genetic engineering and nanotechnology are also discussed to resolve the issue of arsenic contamination in ground water and river basins the book sheds light on this global environmental issue and proposes solutions to remove contamination through a multi disciplinary lens and case studies from bangladesh and india the book may serve as a reference to environment and sustainability researchers students and policy makers it delivers an outline to graduate undergraduate students and researchers as well as academicians who are working on arsenic toxicity with respect to remediation and health issues

More-for-Less Solutions in Fuzzy Transportation Problems

2023-06-13

this book describes a set of methods for finding more for less solutions of various kind of fuzzy transportation problems inspired by more for less approaches to the basic transportation problem initiated by abraham charnes and his collaborators during 1960s and 1970s this book describes new methods developed by the authors to solve different types of problems including symmetric balanced fuzzy transportation problems symmetric intuitionistic fuzzy transportation problems with mixed constraints and symmetric intuitionistic fuzzy linear fractional transportation problems with mixed constraints it offers extensive details on their applications to some representative problems and discusses some future research directions

Impact Analysis of Solutions for Chronic Disease Prevention and Management

2012-05-28

this book constitutes the refereed proceedings of the 10th international conference on smart homes and health telematics icost 2012 held in artiminio tuscanly italy june 12 15 2012 the 25 revised full papers presented together with 22 short papers were carefully reviewed and

selected from 74 submissions the papers are categorized into a number of sessions that include user engagement for improved adoption of assistive technologies self management and tele rehabilitation advances in remote monitoring and activity recognition sensor networks for unobstrusive monitoring solutions and real world aware systems

Information Technology for Management: New Ideas and Real Solutions

2017-01-27

this book constitutes revised selected papers from the 14th conference on advanced information technologies for management aitm 2016 and the 11th conference on information systems management ism 2016 held as part of the federated conference on computer science and information systems fedcsis which took place in gdansk poland in september 2016 the 13 papers presented in this volume were carefully reviewed and selected from 51 submissions they were organized in topical sections named information technology and systems for knowledge management information technology and systems for business transformation and implementation and evaluation of information systems

Kindergarten of Fractional Calculus

2020-02-18

this book presents a simplified deliberation of fractional calculus which will appeal not only to beginners but also to various applied science mathematicians and engineering researchers the text develops the ideas behind this new field of mathematics beginning at the most elementary level before discussing its actual applications in different areas of science and engineering this book shows that the simple classical laws based on newtonian calculus which work quite well under limiting and idealized conditions are not of much use in describing the dynamics of actual systems as such the application of non newtonian or generalized calculus in the governing equations allows the order of differentiation and integration to take on non integer values

Foundations and Frontiers in Computer, Communication and Electrical Engineering

2016-05-05

the 3rd international conference on foundations and frontiers in computer communication and electrical engineering is a notable event which brings together academia researchers engineers and students in the fields of electronics and communication computer and electrical engineering making the conference a perfect platform to share experience f

Chemical Solution Synthesis for Materials Design and Thin Film Device Applications

2021-01-09

chemical solution synthesis for materials design and thin film device applications presents current research on wet chemical techniques for thin film based devices sections cover the quality of thin films types of common films used in devices various thermodynamic properties thin film patterning device configuration and applications as a whole these topics create a roadmap for developing new materials and incorporating the results in device fabrication this book is suitable for graduate undergraduate doctoral students and researchers looking for quick guidance on material synthesis and device fabrication through wet chemical routes provides the different wet chemical routes for materials synthesis along with the most relevant thin film structured materials for device applications discusses patterning and solution processing of inorganic thin films along with solvent based processing techniques includes an overview of key processes and methods in thin film synthesis processing and device fabrication such as nucleation lithography and solution processing

Empowering Low-Resource Languages With NLP Solutions

2024-02-27

in our increasingly interconnected world low resource languages face the threat of oblivion these linguistic gems often spoken by marginalized communities are at risk of fading away due to limited data and resources the neglect of these languages not only erodes cultural diversity but also hinders effective communication education and social inclusion academics practitioners and policymakers grapple with the urgent need for a comprehensive solution to preserve and empower these vulnerable languages empowering low resource languages with nlp solutions is a pioneering book that stands as the definitive answer to the pressing problem at hand it tackles head on the challenges that low resource languages face in the realm of natural language processing nlp through real world case studies expert insights and a comprehensive array of topics this book equips its readers academics researchers practitioners and policymakers with the tools strategies and ethical considerations needed to address the crisis facing low resource languages

Activity Coefficients in Electrolyte Solutions

2018-05-04

this book was first published in 1991 it considers the concepts and theories relating to mostly aqueous systems of activity coefficients

Tagore's Solutions for Colonial Degeneration

2023-12-12

this book focuses on rabindranath tagore as a social and political thinker revolving around tagore s ideas on the seeds of civil society nation identities and communities in the indic tradition the author deconstructs tagore s concepts against the appropriate resurgent and triumphalist western concepts in the updated western social thought and theories the book examines tagore s understanding of the nature of the civil social sphere in india and analyzes the relevance of his civil social concepts against the backdrop of colonialism in india it also discusses his views on nation and nationalism in india and his insights into the problems and prospects of intercommunity particularly hindu muslim relations in india applying current social science and western literature in an unprecedented manner to interpret tagore this book will be of great interest to scholars teachers and students of politics nationalism postcolonialism history comparative literature sociology religious studies and south asian studies

Solvents and Solutions: Structure and Properties

2021-08-06

a unique book on the present status of solvents and solutions with important problems related to their structure and properties the literature on the properties of solvents and solutions used in academic research and in a wide range of industries has grown enormously during the last four decades and is scattered in different specialized journals solvents and solutions is a groundbreaking text that offers a systematic compilation of important problems related to selected properties of solvents and solutions based on the literature published so far the author places emphasis on explaining the basic concepts involved in understanding the properties and behavior of various solvents and solutions of electrolytes and nonelectrolytes in a consistent manner after a description of the general characteristics of structure of solvents and solutions and the solubility of electrolytes and nonelectrolytes under normal temperature and pressure conditions the book first deals with different aspects of the density and the refractive index of solvents and dilute as well as concentrated solutions and finally with the transport i e viscosity and electric conductivity and thermal properties of solvents and solutions solvents and solutions is the first text devoted to the description and discussion of their properties since the publication of a monograph on the physical properties of aqueous electrolyte solutions more than three decades ago the main features of this book are reflects developments in the investigation of solvents and solutions during the last three decades outlines basic concepts involved in understanding the properties and behavior of solvents and solutions describes and discusses different properties of ionic liquids as solvents and the behavior of their mixtures with other commonly used solvents contents of different chapters are not only self contained but the contents are practically independent of each other written as a practical guide for researchers who are looking for an uptodate overview of the physical and transport properties of solvents and solutions and as a reference source for workers in chemical industries and related fields and for graduate students of chemical engineering and physical chemistry

Innovative Solutions in Fluid-Particle Systems and Renewable Energy Management

2015-07-01

the threat of natural resource depletion due to high energy demands has become a key concern in both the developed and developing worlds to alleviate these concerns researchers around the world are exploring sustainable methods for generating energy innovative solutions in fluid particle systems and renewable energy management presents phenomenological experimental and theoretical research as well as market criteria and business models concerning the development of small and large scale chemical and energy plants associating academic and industrial experiences this book highlights current topics in sustainable energy management and development with an emphasis on obtaining liquid gaseous and solid fuels using residues and energetic biomasses academicians researchers and technology developers will find this book useful in furthering their own knowledge and research in this field a pivotal publication in the field of engineering this title covers a range of topics including among others cellulosic feedstock agricultural biomass fluid dynamics gasification processes energy extraction from raw materials and environmental sustainability

Carbon-Based Nanofillers and Their Rubber Nanocomposites

2019-02-06

carbon based nanofillers and their rubber nanocomposites fundamentals and applications provides the synthetic routes characterization structural properties and effect of nano fillers on rubber nanocomposites the synthesis and characterization of all carbon based fillers is discussed along with their morphological thermal mechanical dynamic mechanical and rheological properties the book also covers the theory modeling and simulation aspects of these nanocomposites and their various applications users will find a valuable reference source for graduates and post graduates engineers research scholars polymer engineers polymer technologists and those working in the biomedical field reviews rubber nanocomposites specifically carbon associated nanomaterials nanocarbon black graphite graphene carbon nanotubes fullerenes diamond presents the synthesis and characterization of carbon based nanocomposites relates the structure of these nanocomposites to their function as rubber additives and their many applications

Alternative Fuels and Advanced Combustion Techniques as Sustainable Solutions for Internal Combustion Engines

2021-05-15

this monograph covers different aspects related to utilization of alternative fuels in internal

combustion ic engines with a focus on biodiesel dimethyl ether alcohols biogas etc the focal point of this book is to present engine combustion performance and emission characteristics of ic engines fueled by these alternative fuels a section of this book also covers the potential strategies of utilization of these alternative fuels in an energy efficient manner to reduce the harmful pollutants emitted from ic engines it presents the comparative analysis of different alternative fuels in a variety of engines to show the appropriate alternative fuel for specific types of engines this book will prove useful for both researchers as well as energy experts and policy makers

Architectural Wireless Networks Solutions and Security Issues

2021-04-23

this book presents architectural solutions of wireless network and its variations it basically deals with modeling analysis design and enhancement of different architectural parts of wireless network the main aim of this book is to enhance the applications of wireless network by reducing and controlling its architectural issues the book discusses efficiency and robustness of wireless network as a platform for communication and data transmission and also discusses some challenges and security issues such as limited hardware resources unreliable communication dynamic topology of some wireless networks vulnerability and unsecure environment this book is edited for users academicians and researchers of wireless network broadly topics include modeling of security enhancements optimization model for network lifetime modeling of aggregation systems and analyzing of troubleshooting techniques

Clinical Solutions and Medical Progress through User-Driven Healthcare

2012-07-31

this book provides comprehensive coverage and understanding of clinical problem solving in healthcare especially user driven healthcare using concerted experiential learning in conversations between multiple users and stakeholders primarily patients health professionals and other actors in a care giving collaborative network across a web interface

Quarterly Journal

1954

this research topic is a part of the delft 2021 1st sociohydrology conference series to view the other sessions please follow the links below innovating a new knowledge base for water justice studies hydrosocial sociohydrology and beyond scale issues in human water systems water resources and human behavior analysis and modeling of coupled water human systems feedbacks and coevolution innovative sensing observing measuring and analysing human water data pluralistic water research integrates the hydrological and the social to

provide sustainable solutions to water crises while relying upon robust quantitative modelling sociohydrology captures crises across many waters surface ground and interstitial along quantity and quality dimensions hydrosocial unfurls power hierarchies in access to safe and required quota of water be it for drinking or irrigation purposes the success of engineering solutions laying out hard interventions such as solar powered irrigation dams high yielding crop varieties water treatment plants and water distributions and purifications depend on soft socio political cultural and psychological variables like the political landscape community behaviours and governance arrangements how these soft parameters limit or advance the effect of hard interventions await more enhanced modelling and place based qualitative analyses to disentangle various cause effect pathways while historical and process based sociohydrology accommodates detailed temporal datasets and causal relationships across human water systems the hydrosocial paradigm reconciles non modern anti hegemonic water techniques and knowledge systems animating local agencies within specific hydrosapes this issue is dedicated to capture real time innovations through which water challenges have been confronted it intends to unravel storylines along actionable water projects reflecting on mediations across multiple actors and networks in specific spatio temporal and cultural contexts finally drawing our attention to the correlation between projected promises and actual realities situated at the crossroads of boundary work we invite articles that will deploy a range of interdisciplinary frameworks like rana's risk attitude norms ability and self regulation apie awareness participation involvement and engagement hupe historical urban political ecology etc to demonstrate coupled sociohydrological and hydrosocial realities and in turn getting informed by empirical insights emanating from these actual water interventions the final aim of the special issue is not to showcase water just actual interventions but to elicit a rigorous mapping of sustainable processes facilitating collective co production of resilient water trajectories

Solutions to Water Crises (Related to Actual Interventions)

2024-01-26

pollution has no borders this popular 70 s saying from early ecologists is surprisingly still true nowadays despite overwhelming scientific evidence and public awareness of the occurrence of artificial toxic substances in water food air living organisms and the environment this book presents advanced reviews on pollutant occurrence transfer toxicity and remediation the chapter on school air quality by dambruoso et al highlights the overlooked health issue of airborne pollutants in buildings children are particularly threatened because they spend 90 of their time indoors even in summer the chapter on industrial wastewater pollutants by dsikowitzky and schwarzbauer reviews pollutants from textile petrochemical paper tire chemical and pharmaceutical plants the authors describe advanced analytical methods and ecotoxicity tests industrial pollutants include dioxins and furans that are also reviewed in the chapter by mudhoo et al the chapter on fly ash by gianoncelli et al presents many techniques to treat fly ash and in turn decrease pollutant concentrations the authors also explain that fly ash can be recycled in agriculture buildings and geopolymers the chapter on antifouling paints used for ship protection by sousa et al highlights the occurrence of toxic organotins in human organs such as heart liver and breast milk the chapter on surfactants by rebello et al

focuses on safety concerns for humans and the ecosystems remediation techniques and green surfactants are presented the chapters on toxic metals by nava ruíz and méndez armenta abarikwu and ristić et al describe sources monitoring and diseases induced by lead mercury cadmium and thallium the chapter on carcinogenic nitrosamines by li et al presents techniques and materials such as zeolites to remediate liquids and smoke containing nitrosamines

Journal of the Indian Chemical Society

2005

this book provides a unique account of cross sectoral innovations through efficient partnerships based on the hands on experience of internationally renowned contributors specialised in the field of science of delivery the challenges and lessons learned from large development initiatives based in asia and from the work undertaken by international research institutions such as the fao are brought together in this book to benefit development agencies policy makers corporates post graduate students farmers organizations and those involved in supplying agricultural inputs and or buying agricultural produce particularly in developing countries within asia and africa through a number of case studies the book describes how the consortium approach of capacity building for equitable and efficient benefits collective action and convergence will benefit millions of small farm holders in different regions of asia

Pollutant Diseases, Remediation and Recycling

2014-01-25

the proliferation of powerful but cheap devices together with the availability of a plethora of wireless technologies has pushed for the spread of the wireless internet of things wiot which is typically much more heterogeneous dynamic and general purpose if compared with the traditional iot the wiot is characterized by the dynamic interaction of traditional infrastructure side devices e g sensors and actuators provided by municipalities in smart city infrastructures and other portable and more opportunistic ones such as mobile smartphones opportunistically integrated to dynamically extend and enhance the wiot environment a key enabler of this vision is the advancement of software and middleware technologies in various mobile related sectors ranging from the effective synergic management of wireless communications to mobility adaptivity support in operating systems and differentiated integration and management of devices with heterogeneous capabilities in middleware from horizontal support to crowdsourcing in different application domains to dynamic offloading to cloud resources only to mention a few the book presents state of the art contributions in the articulated wiot area by providing novel insights about the development and adoption of middleware solutions to enable the wiot vision in a wide spectrum of heterogeneous scenarios ranging from industrial environments to educational devices the presented solutions provide readers with differentiated point of views by demonstrating how the wiot vision can be applied to several aspects of our daily life in a pervasive manner

Scaling-up Solutions for Farmers

2021-11-17

e health applications such as tele medicine tele radiology tele ophthalmology and tele diagnosis are very promising and have immense potential to improve global healthcare they can improve access equity and quality through the connection of healthcare facilities and healthcare professionals diminishing geographical and physical barriers one critical issue however is related to the security of data transmission and access to the technologies of medical information currently medical related identity theft costs billions of dollars each year and altered medical information can put a person s health at risk through misdiagnosis delayed treatment or incorrect prescriptions yet the use of hand held devices for storing accessing and transmitting medical information is outpacing the privacy and security protections on those devices researchers are starting to develop some imperceptible marks to ensure the tamper proofing cost effective and guaranteed originality of the medical records however the robustness security and efficient image archiving and retrieval of medical data information against these cyberattacks is a challenging area for researchers in the field of e health applications intelligent data security solutions for e health applications focuses on cutting edge academic and industry related research in this field with particular emphasis on interdisciplinary approaches and novel techniques to provide security solutions for smart applications the book provides an overview of cutting edge security techniques and ideas to help graduate students researchers as well as it professionals who want to understand the opportunities and challenges of using emerging techniques and algorithms for designing and developing more secure systems and methods for e health applications investigates new security and privacy requirements related to ehealth technologies and large sets of applications reviews how the abundance of digital information on system behavior is now being captured processed and used to improve and strengthen security and privacy provides an overview of innovative security techniques which are being developed to ensure the guaranteed authenticity of transmitted shared or stored data information

Middleware Solutions for Wireless Internet of Things

2019-07-15

this book offers a timely review of modern technologies for health with a special emphasis on wireless and wearable technologies gis tools and machine learning methods for managing the impacts of pandemics it describes new strategies for forecasting evolution of pandemics optimizing contract tracing and for detection and diagnosis of diseases among others written by researchers and professionals with different backgrounds this book offers a extensive information and a source of inspiration for physiologists engineers it scientists and policy makers in the health and technology sector

Intelligent Data Security Solutions for e-Health

Applications

2020-09-01

digital innovation for healthcare in covid 19 pandemic strategies and solutions provides comprehensive knowledge and insights on the application of information technologies in the healthcare sector sharing experiences from leading researchers and academics from around the world the book presents innovative ideas solutions and examples to deal with one of the major challenges of the world a global problem with health economic and political dimensions advanced information technologies can play a key role in solving problems generated by the covid 19 outbreak the book addresses how science technology and innovation can provide advances and solutions to new global health challenges this is a valuable resource for researchers clinicians healthcare workers policymakers and members of the biomedical field who are interested in learning how digital technologies can help us avoid and solve global disease dissemination presents real world cases with experiences of applications of healthcare solutions during the pandemic of covid 19 discusses new approaches theories and tools developed during an unprecedented health situation and how they can be used afterwards encompasses information on preparedness for future outbreaks to make less costly and more effective healthcare responses to crises

The Science behind the COVID Pandemic and Healthcare Technology Solutions

2022-10-29

the book aims to identify key issues and developments in asean 5 that illustrate the transition of this region towards a knowledge based economy the book contributes to understanding the opportunities and challenges faced by emerging economies it explains the transition process from a knowledge based perspective showing how knowledge creation and innovation contribute to the competitiveness of companies and sectors in this region the book takes a distinctly asean perspective by discussing examples of the transition process from all asean 5 nations that show how this region is attempting to link up to the global knowledge economy of the 21st century to achieve these aims the book is divided into three parts preceded by an introductory chapter explaining the logic objectives and contributions of the book part i discusses asean 5 as an emerging hub in the global economy part ii discusses the global links of the asean region part iii highlights innovation support in the asean region each part identifies key developments and discusses relevant challenges and opportunities regarding the economic transition process based on examples for the various asean 5 nations the book contributes to the literature on emerging economies by explaining their challenges and opportunities of the catching up process from a knowledge based perspective it is definitely a must read

Digital Innovation for Healthcare in COVID-19

Pandemic: Strategies and Solutions

2022-03-11

as the pharmaceutical industry continues to advance new techniques in drug design are emerging in order to deliver optimum care to patients the development of innovative pharmacological techniques has become a widely studied topic applied case studies and solutions in molecular docking based drug design is a pivotal reference source for the latest scholarly research on the progress of pharmaceutical design and computational approaches in the field of molecular docking highlighting innovative research perspectives and real world applications this book is ideally designed for professionals researchers practitioners and medical chemists actively involved in computational chemistry and pharmaceutical sciences

Emerging Knowledge Economies in Asia

2013-10-08

this book includes over three hundred and seventy five short papers presented during the second emcei which was held in sousse tunisia in october 2019 after the success of the first emcei in 2017 the second installment tackled emerging environmental issues together with new challenges e g by focusing on innovative approaches that contribute to achieving a sustainable environment in the mediterranean and surrounding regions and by highlighting to decision makers from related sectors the environmental considerations that should be integrated into their respective activities presenting a wide range of environmental topics and new findings relevant to a variety of problems in these regions this volume will appeal to anyone working in the subject area and particularly to students interested in learning more about new advances in environmental research initiatives in view of the worsening environmental degradation of the mediterranean and surrounding regions which has made environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare

Applied Case Studies and Solutions in Molecular Docking-Based Drug Design

2016-05-11

the book is devoted to varieties of linear singular integral equations with special emphasis on their methods of solution it introduces the singular integral equations and their applications to researchers as well as graduate students of this fascinating and growing branch of applied mathematics

Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd

Edition)

2021-04-09

dyes are versatile compounds that have been successfully used in textile printing rubber cosmetics plastic pharmaceutical and leather industries to color the products dye using industries particularly textile or printing industries are responsible for the generation of a great amount of colored wastewater that are polluting and threatening the environment many of these dyes are carcinogenic mutagenic and teratogenic as well as harmful to human aquatic life and other living things and their elimination from wastewater is highly essential various approaches have been implemented in the efforts to mitigate the issue related to textile wastewater such as adsorption biological processes advanced oxidation processes membrane technology etc in this volume 1 the application of various types of polymers in different wastewater treatment technologies are presented the synthesis procedure of some polymers the polymer modification the effect of operational parameters on polymer efficiency the interactions between polymers dyes etc are discussed

Cumulated Index Medicus

1987

list of members in each volume

Indian Journal of Chemistry

2009

the first international conference on advancement of computer communication and electrical technology focuses on key technologies and recent progress in computer vision information technology applications vlsi signal processing power electronics drives and application of sensors transducers etc topics in this conference include computer science this conference encompassed relevant topics in computer science such as computer vision intelligent system networking theory and application of information technology communication engineering to enhance the theory technology of communication engineering accet 2016 highlighted the state of the art research work in the field of vlsi optical communication and signal processing of various data formatting research work in the field of microwave engineering cognitive radio and networks are also included electrical technology the state of the art research topic in the field of electrical instrumentation engineering is included in this conference such as power system stability protection non conventional energy resources electrical drives and biomedical engineering research work in the area of optimization and application in control measurement instrumentation are included as well

Applied Singular Integral Equations

2016-04-19

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