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Artificial Intelligence and Cybersecurity Nuclear Structure Physics Nanoscience Indian National Congress Kumar and Clark's Clinical Medicine E-Book Kumar and Clark's Clinical Medicine E-Book Akshay Kumar Dutta and Public Culture in Nineteenth-Century Bengal Handbook of Nanomaterials for Wastewater Treatment Natural Product Experiments in Drug Discovery Plant Abiotic Stress Physiology Lead Chemistry Cognitive Computing for Human-Robot Interaction Animal-Origin Viral Zoonoses Spatial Dynamics and Ecology of Large Ungulate Populations in Tropical Forests of India Sustainable Agriculture Reviews 56 New Frontiers of Nanomaterials in Environmental Science Shiv K. Kumar as a Post-colonial Poet Computing, Internet of Things and Data Analytics Journal of Nano Research Organophosphorus Chemistry Advances in Electronics, Communication and Computing The Psychology of Theft and Loss Molecular Approaches in Plant Biology and Environmental Challenges Concise Concepts of Nanoscience and Nanomaterials Annual Report of the Council Heterogeneous Catalysis in Sustainable Synthesis Water for Energy and Fuel Production Soft Computing and Signal Processing Proceedings of International Conference on Wireless Communication Nanoelectronics, Circuits and Communication Systems The Routledge Companion to Strategic Marketing A Multi Objective Programming Approach to Solve Integer Valued Neutrosophic Shortest Path Problems Food Waste to Valuable Resources Handbook of Functionalized Nanomaterials Sustainable Agriculture Reviews 40 Handbook of Lung Targeted Drug Delivery Systems Modern Aryne Chemistry Urban Water Crisis and Management Reactive Polymers: Fundamentals and Applications Sensor Signal and Information Processing II

Artificial Intelligence and Cybersecurity 2022-02-04 artificial intelligence and cybersecurity are two emerging fields that have made phenomenal contributions toward technological advancement as cyber attacks increase there is a need to identify threats and thwart attacks this book incorporates recent developments that artificial intelligence brings to the cybersecurity world artificial intelligence and cybersecurity advances and innovations provides advanced system implementation for smart cities using artificial intelligence it addresses the complete functional framework workflow and explores basic and high level concepts the book is based on the latest technologies covering major challenges issues and advances and discusses intelligent data management and automated systems this edited book provides a premier interdisciplinary platform for researchers practitioners and educators it presents and discusses the most recent innovations trends and concerns as well as practical challenges and solutions adopted in the fields of artificial intelligence and cybersecurity

Nuclear Structure Physics 2020-10-22 nuclear structure physics connects to some of our fundamental questions about the creation of universe and its basic constituents at the same time precise knowledge on the subject has lead to develop many important tools of human kind such as proton therapy radioactive dating etc this book contains chapters on some of the crucial and trending research topics in nuclear structure including the nuclei lying on the extremes of spin isospin and mass a better theoretical understanding of these topics is important beyond the confines of the nuclear structure community additionally the book will showcase the applicability and success of the different nuclear effective interaction parameters near the drip line where hints for level reordering have already been seen and where one can test the isospin dependence of the interaction the book offers comprehensive coverage of the most essential topics including nuclear structure of nuclei at or near drip lines synthesis challenges and properties of superheavy nuclei nuclear structure and nuclear models ab initio calculations cluster models shell model dsm rmf skyrme shell closure magicity and other novel features of nuclei at extremes structure of toroidal bubble nuclei halo and other exotic nuclei these topics are not only very interesting from theoretical nuclear physics perspective but are also quite complimentary for ongoing nuclear physics experimental program worldwide it is hoped that the book chapters written by experienced and well known researchers experts will be helpful for the master students graduate students and researchers and serve as a standard uptodate research reference book on the topics covered

Nanoscience 2013-11-28 the field of nanoscience continues to grow at an impressive rate with over 10 000 new articles a year contributing to a literature of more than half a million citations such a vast landscape of material requires careful searching to discover the most important discoveries the introduction of the newest specialist periodical report by the royal society of chemistry nanoscience provides a critical and comprehensive assesment of the most recent research and opinion with contributions from across the globe this new series ensures readers will be well versed in the latest research and methodologies some chapters will also present a special focus in emerging countries working in the field such as india and china anyone practicing in any nano allied field or wishing to enter the nano world will benefit from the comprehensive resource which will be published annually

Indian National Congress 1989 now in its tenth edition kumar clark s clinical medicine is fully updated and revised under a new team of editors featuring new chapters covering o diagnosis the art of being a doctor helping readers to develop a confident clinical method in interactions with patientso elderly medicine frailty and multimorbidityo public healtho surgeryo evidence based medicineo sepsis and the treatment of bacterial infection o haematological oncologyo venous thromboembolic diseaseo hypertensiono men s healthenhanced clinical skills content has been added to most chapters helping readers tailor history taking and examination skills to specific specialty based contexts bonus online content including self assessment common clinical and international cases cardiovascular and respiratory audio material clinical examination videos and bite sized topic pages covering major conditions heavily revised throughout with smaller chapters to ease navigation added introductions and system overviews included for most chapters edited by adam feather mbbs frcp facadmed david randall ma mrcp and mona waterhouse ma mrcp contributors comprise consultants at the top of their fields paired with younger doctors closer to the exam experience to ensure authority and relevance enhanced e book accompanies the print book for ease of transportation and use on the move international

advisory board led by professor janaka de silva and professor senaka rajapakse providing guidance for global coverage from across the world contributions to the e book by members of the international advisory board to amplify areas of clinical importance in their parts of the world featuring new chapters covering o diagnosis the art of being a doctor helping readers to develop a confident clinical method in interactions with patients o geriatric medicine frailty and multimorbidity o public health o surgery o evidence based medicine o sepsis o haematological oncology o venous thromboembolic disease o hypertension o men s health o obstetric medicine enhanced clinical skills content has been added to most chapters helping readers tailor history taking and examination skills to specific specialty based contexts

Kumar and Clark's Clinical Medicine E-Book 2020-06-19 kumar clark s clinical medicine 8 builds on the prize winning formula that won the first prize in the bma book awards medicine category in 2010 7th edition and 2006 6th edition this book is comprehensive student friendly if still intimidating in size and covers such a vast breadth of knowledge it still remains the primary must have text book of any budding doctor or qualified one at that this book is stunning in its breadth and in its ease of use it still remains as the gold standard thorough guide to clinical medicine its forefathers were bma judges 2010 this is one of a select few books that deserves to be in most doctors personal possession and it s as simple as that dr harry brown new to this edition new chapter on palliative medicine five times the number of margin clinical photos new echocardiography images double the number of dermatological images including all the major lesion morphologies covered in a single page 16 new authors new sections on protein synthesis energy production and stem cells new members of the international advisory board from india south africa poland and the middle east 7 new online chapters from the international advisory board key online features 30 extra short chapters online written by members of the international advisory board to cover key international issues such as malaria envenoming and hiv animated practical procedures including lumbar puncture central venous and bladder catheterization arterial cannulation etc heart and lung sounds and interactive surface anatomy available online full text online through studentconsult add your own notes and bookmarks search across all the studentconsult resources you own online in one place new to this edition new chapter on palliative medicine five times the number of margin clinical photos new echocardiography images double the number of dermatological images including all the major lesion morphologies covered in a single page 16 new authors new sections on protein synthesis energy production and stem cells new members of the international advisory board from india south africa poland and the middle east 7 new online chapters from the international advisory board

Kumar and Clark's Clinical Medicine E-Book 2012-06-04 locates akshay kumar datta as one of the foundational figures of intellectual refashioning in nineteenth century bengal

Akshay Kumar Dutta and Public Culture in Nineteenth-Century Bengal 2023-08-31 handbook of nanomaterials for wastewater treatment fundamentals and scale up issues provides coverage of the nanomaterials used for wastewater treatment covering photocatalytic nanocomposite materials nanomaterials used as adsorbents water remediation processes and their current status and challenges the book explores the major applications of nanomaterials for effective catalysis and adsorption also providing in depth information on the properties and application of new advanced nanomaterials for wastewater treatment processes this is an important reference source for researchers who need to solve basic and advanced problems relating to the use of nanomaterials for the development of wastewater treatment processes and technologies as nanotechnology has the potential to substantially improve current water and wastewater treatment processes the synthesis methods and physiochemical properties of nanomaterials and noble metal nanoparticles make their performance and mechanisms efficient for the treatment of various pollutants explains the properties of the most commonly used nanomaterials used for wastewater treatment describes the major nanoscale synthesis and processing techniques for wastewater treatment assesses the major challenges for using nanomaterials on a mass scale for wastewater treatment

Handbook of Nanomaterials for Wastewater Treatment 2021-05-05 this detailed volume explores a wide range of evidence based complementary medicine and various bio analytical techniques used to define botanical products collecting recent work and current developments in the field of contemporary

phytomedicine as well as their future possibilities in human health care the book includes unique contributions in the form of chapters on phytomedicine and screening biological activities explained with diverse hyphenated techniques as well as issues related to herbal medications such as efficacy adulteration safety toxicity regulations and drug delivery written for the springer protocols handbooks series chapters feature advice from experts on how to best conduct future experiments extensive and practical natural product experiments in drug discovery serves as an ideal reference for students professors and researchers in universities r d institutes pharmaceutical and herbal enterprises and health organizations

Natural Product Experiments in Drug Discovery 2022-09-20 this two volume set highlights the various innovative and emerging techniques and molecular applications that are currently being used in plant abiotic stress physiology volume 1 responses and adaptations focuses on the responses and adaptations of plants to stress factors at the cellular and molecular levels and offers a variety of advanced management strategies and technologies volume 2 molecular advancements introduces a range of state of the art molecular advances for the mitigation of abiotic stress in plants with contributions from specialists in the field volume 1 first discusses the physiology and defense mechanisms of plants and the various kinds of stress such as from challenging environments climate change and nutritional deficiencies it goes on to discuss trailblazing management techniques that include genetics approaches for improving abiotic stress tolerance in crop plants along with crispr cas mediated genome editing technologies volume 2 discusses how plants have developed diverse physiological and molecular adjustments to safeguard themselves under challenging conditions and how emerging new technologies can utilize these plant adaptations to enhance plant resistance these include using plant environment interactions to develop crop species that are resilient to climate change applying genomics and phenomics approaches from the study of abiotic stress tolerance and more agriculture today faces countless challenges to meet the rising need for sustainable food supplies and guarantees of high quality nourishment for a quickly increasing population to ensure sufficient food production it is necessary to address the difficult environmental circumstances that are causing cellular oxidative stress in plants due to abiotic factors which play a defining role in shaping yield of crop plants these two volumes help to meet these challenges by providing a rich source of information on plant abiotic stress physiology and effective management techniques

Plant Abiotic Stress Physiology 2022-02-17 lead continues to amaze us in a variety of ways the more we learn the more we are amazed or more like it obsessed even though we might think that we know the element quite well the fact is that more research must be conducted to support its subtle behaviors and effects the most obvious aspect is the effects of lead on health because lead is still in use today we have to understand the effects of lead on our metabolisms in addition more and more compounds of lead have been continuously synthesized and their properties and behaviors are required with the help from a variety of scientific disciplines to provide information for newcomers especially students or even the public the overview of lead effects has been included in this book despite the variety of lead aspects the book might seem to contain at least some topics should suit readers interests the rest meaning the contents for new books depends on how fast you can take the benefits out of this book

Lead Chemistry 2020-10-14 cognitive computing for human robot interaction principles and practices explores the efforts that should ultimately enable society to take advantage of the often heralded potential of robots to provide economical and sustainable computing applications this book discusses each of these applications presents working implementations and combines coherent and original deliberative architecture for human robot interactions hri supported by experimental results it shows how explicit knowledge management promises to be instrumental in building richer and more natural hri by pushing for pervasive human level semantics within the robot s deliberative system for sustainable computing applications this book will be of special interest to academics postgraduate students and researchers working in the area of artificial intelligence and machine learning key features introduces several new contributions to the representation and management of humans in autonomous robotic systems explores the potential of cognitive computing robots and hri to generate a deeper understanding and to provide a better contribution from robots to society engages with the potential

repercussions of cognitive computing and hri in the real world introduces several new contributions to the representation and management of humans in an autonomous robotic system explores cognitive computing robots and hri presenting a more in depth understanding to make robots better for society gives a challenging approach to those several repercussions of cognitive computing and hri in the actual global scenario

Cognitive Computing for Human-Robot Interaction 2021-08-13 this book is the second volume in the series livestock diseases and management and reviews the importance and implications of animal origin viral zoonoses it also highlights the specific etiology and epidemiology of these viral infections and discusses their various biological and mechanical transmission mechanisms further the book reviews various measures for controlling viral zoonoses and examines novel therapeutic and prophylactic strategies discussing recent studies on the pathogenesis and host immune response to these infections it underscores the importance of using vaccines against these viral diseases to reduce the risk of them being transmitted to humans lastly it describes in detail the challenges posed by these viral infections and our readiness to face them

Animal-Origin Viral Zoonoses 2020-09-23 large ungulates in tropical forests are among the most threatened taxa of mammals excessive hunting degradation of and encroachments on their natural habitats by humans have contributed to drastic reductions in wild ungulate populations in recent decades as such reliable assessments of ungulate habitat relationships and the spatial dynamics of their populations are urgently needed to provide a scientific basis for conservation efforts however such rigorous assessments are methodologically complex and logistically difficult and consequently many commonly used ungulate population survey methods do not address key problems as a result of such deficiencies key parameters related to population distribution abundance habitat ecology and management of tropical forest ungulates remain poorly understood this book addresses this critical knowledge gap by examining how population abundance patterns in five threatened species of large ungulates vary across space in the tropical forests of the nagarahole bandipur reserves in southwestern india it also explains the development and application of an innovative methodology spatially explicit line transect sampling based on an advanced hierarchical modelling under the bayesian inferential framework which overcomes common methodological deficiencies in current ungulate surveys the methods and results presented provide valuable reference material for researchers and professionals involved in studying and managing wild ungulate populations around the globe

Spatial Dynamics and Ecology of Large Ungulate Populations in Tropical Forests of India

2020-11-02 this book reviews the sources extraction processing and applications of value added compounds from agro waste with a focus on drug delivery tea apple pomace lignin nanocomposites bioethanol fertilizers and sitosterol food residues provide bioactive molecules enzymes vitamins antioxidants and animal feed

Sustainable Agriculture Reviews 56 2022-02-10 this book provides the detail information about nanoparticles their types characterization techniques such as tem fesem afm xrd etc nanogenotoxicity metal and metal oxide nanoparticle s toxicity physical and chemical characterization of nanomaterials entry routes cell nano interaction studies possible impacts to the human kind and on the methods of evaluating the toxicity it puts together comprehensive and up to date information about sustainable approaches in making an eco friendly environment using advanced nanotechnologies it educated readers about the new frontiers and scope of employing various state of art nano technologies to clean up and save our environment this book will be of interest to teachers researchers environmental biotechnologists capacity builders and policymakers also the book serves as additional reading material for undergraduate and graduate students of agriculture environmental sciences environmental engineering and biotechnology

New Frontiers of Nanomaterials in Environmental Science 2021-03-20 shiv k kumar as a post colonial poet is an incisive and well researched book it makes an indepth study of the entire corpus of shiv k kumar s poetry from all angles themes images idioms post coloniality and technical accomplishments the concluding chapter lays emphasis on kumar s contribution to post colonial indian english poetry this is an invaluable book on kumar s poetry meant both for the common readers and specialists in the field

Shiv K. Kumar as a Post-colonial Poet 2001 this periodical edition includes peer reviewed scientific and engineering papers on all aspects of research in the area of nanoscience and nanotechnologies and wide practical application of the achieved results

Computing, Internet of Things and Data Analytics 2010-04-07 organophosphorus chemistry provides a comprehensive annual review of the literature coverage includes phosphines and their chalcogenides phosphonium salts low coordination number phosphorus compounds penta and hexa coordinated compounds trivalent phosphorus acids nucleotides and nucleic acids ylides and related compounds and phosphazenes the series will be of value to research workers in universities government and industrial research organisations whose work involves the use of organophosphorus compounds it provides a concise but comprehensive survey of a vast field of study with a wide variety of applications enabling the reader to rapidly keep abreast of the latest developments in their specialist areas specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued the current list of specialist periodical reports can be seen on the inside flap of this volume

Journal of Nano Research 2007-10-31 this book is a compilation of research work in the interdisciplinary areas of electronics communication and computing this book is specifically targeted at students research scholars and academicians the book covers the different approaches and techniques for specific applications such as particle swarm optimization otsu s function and harmony search optimization algorithm triple gate silicon on insulator soi mosfet micro raman and fourier transform infrared spectroscopy ftir analysis high k dielectric gate oxide spectrum sensing in cognitive radio microstrip antenna ground penetrating radar gpr with conducting surfaces and digital image forgery detection the contents of the book will be useful to academic and professional researchers alike

Organophosphorus Chemistry 2017-10-27 why do we steal this question has confounded everyone from parents to judges teachers to psychologists economists to more than a few moral thinkers stealing can be a result of deprivation of envy or of a desire for power and influence an act of theft can also bring forth someone s hidden traits paradoxically proving beneficial to their personal development robert tyminski explores the many dimensions of stealing and in particular how they relate to a subtle balance of loss versus gain that operates in all of us our natural aversion to loss can lead to extreme actions as a means to acquire what we may not be able to obtain through time work or money tyminski uses the myth of jason medea and the golden fleece to explore the dilemmas involved in such situations and demonstrate the timelessness of theft as fundamentally human the psychology of theft and loss incorporates jungian and psychoanalytic theories as well as more recent cognitive research findings to deepen our appreciation for the complexity of human motivations when it comes to stealing culminating in consideration of the idea of a perpetually present inner thief combining case studies jungian theory and analysis of many different types of stealing including robbery kidnapping plagiarism and technotheft the psychology of theft and loss is a fascinating study which will appeal to psychoanalysts psychologists psychiatrists social workers family therapists and students

Advances in Electronics, Communication and Computing 2014-07-11 this book discusses molecular approaches in plant as response to environmental factors such as variations in temperature water availability salinity and metal stress the book also covers the impact of increasing global population urbanization and industrialization on these molecular behaviors it covers the natural tolerance mechanism which plants adopt to cope with adverse environments as well as the novel

molecular strategies for engineering the plants in human interest this book will be of interest to researchers working on the impact of the changing environment on plant ecology issues of crop yield and nutrient quantity and quality in agricultural crops the book will be of interest to researchers as well as policy makers in the environmental and agricultural domains

The Psychology of Theft and Loss 2019-10-01 this book provides a basic understanding of the emerging multidisciplinary area of nanoscience and nanomaterials being offered as core subjects both in basic sciences and engineering disciplines at graduate and postgraduate levels the subject matter of the book is designed to generate a clear understanding on various aspects of nanoscience from fundamentals to technological applications along with the exhaustive account of nanomaterials classified in a very appropriate manner book includes a balanced view on the physics to understand the origin of unique properties of nanomaterials and well tested synthetic techniques including simple chemical and physical routes illustrated with examples special emphasis is given on the characterization techniques for nanomaterials in terms of spectroscopy scattering phenomena and microscopy including their principle methodology and data interpretation illustrated with examples in order to drive on the significance of nanoscience and nanomaterials impact of nanotechnology in diverse area such as health care environment protection agriculture energy security has been dealt separately the historical perspective as well existence of nanomaterials in nature both in living and nonliving species has also been discussed in the beginning it is hoped that the book will prove to be student centric at all levels from different disciplines to understand the revolutionary as well as evolutionary field of nanoscience further book will also be a valuable resource for professionals researchers and others interested to gain understanding of the principles of nanoscience and benefits of nanomaterials in developing newer technology

Molecular Approaches in Plant Biology and Environmental Challenges 2018-08-01 heterogeneous catalysis in sustainable synthesis is a practical guide to the use of solid catalysts in synthetic chemistry that focuses on environmentally benign applications collating essential information on solid catalysts into a single volume it reveals how the efficient use of heterogeneous catalysts in synthetic chemistry can support sustainable applications beginning with a review of the fundamentals of heterogeneous catalytic synthesis the book then explores the basic concepts of heterogeneous catalytic reactions from adsorption to catalyst poisons the use of non traditional activation methods recommended solvents the major types of both metal and non metal solid catalysts and applications of these catalysts in sustainable synthesis based on the extensive experience of its expert author this book aims to encourage and support synthetic chemists in using solid catalysts in their own work while also highlighting the important link between heterogeneous catalysis and sustainability to all those interested combines foundational knowledge with a focus on practical applications organizes information by reaction type allowing readers to easily find examples of how to carry out specific reaction types with solid catalysts highlights emerging areas such as nanoparticle catalysis and metal organic framework mof based catalysts

Concise Concepts of Nanoscience and Nanomaterials 1968 this text describes water s use in the production of raw fuels as an energy carrier e g hot water and steam and as a reactant reaction medium and catalyst for the conversion of raw fuels to synthetic fuels it explains how supercritical water is used to convert fossil and bio based feedstock to synthetic fuels in the presence and absence of a catalyst it also explores water as a direct source of energy and fuel such as hydrogen from water dissociation methane from water based clathrate molecules and more

Annual Report of the Council 2021-09-17 the book presents selected research papers on current developments in the field of soft computing and signal processing from the international conference on soft computing and signal processing icscsp 2018 it includes papers on current topics such as soft sets rough sets fuzzy logic neural networks genetic algorithms and machine learning discussing various aspects of these topics like technological product implementation contemporary research as well as application issues

Heterogeneous Catalysis in Sustainable Synthesis 2014-05-16 this book comprises selected papers presented at the international conference on wireless communication icwicom 2021 which is organized by the department of electronics and telecommunication engineering d j sanghvi college of

engineering mumbai india during october 8 9 2021 the book focuses on specific topics of wireless communication like signal and image processing applicable to wireless domains networking microwave and antenna design and telemedicine systems covering three main areas antenna design networking signal processing embedded systems and internet of things iot it is a valuable resource for postgraduate and doctoral students

Water for Energy and Fuel Production 2019-01-16 this book features selected papers presented at the fourth international conference on nanoelectronics circuits and communication systems nccs 2018 covering topics such as mems and nanoelectronics wireless communications optical communications instrumentation signal processing the internet of things image processing bioengineering green energy hybrid vehicles environmental science weather forecasting cloud computing renewable energy rfid cmos sensors actuators transducers telemetry systems embedded systems and sensor network applications in mines it offers a valuable resource for young scholars researchers and academics alike

Soft Computing and Signal Processing 2022-01-15 the routledge companion to strategic marketing offers the latest insights into marketing strategy bodo schlegelmilch and russ winer present 29 specially commissioned chapters which include up to date thinking on a diverse range of marketing strategy topics readers benefit from the latest strategic insights of leading experts from universities around the world contributing authors are from among others the u s berkeley cornell mit new york university texas a m europe the hanken school of economics insead the university of oxford the university of groningen wu vienna and asia the indian school of business tongji university the topics addressed include economic foundations of marketing strategy competition in digital marketing strategy e g mobile payment systems and social media strategy marketing strategy and corporate social responsibility as well as perspectives on capturing the impact of marketing strategy collectively this authoritative guide is an accessible tool for researchers students and practitioners

Proceedings of International Conference on Wireless Communication 2020-04-01 neutrosophic ns set hypothesis gives another way to deal with the vulnerabilities of the shortest path problems spp several researchers have worked on fuzzy shortest path problem fspp in a fuzzy graph with vulnerability data and completely different applications in real world eventualities however the uncertainty related to the inconsistent information and indeterminate information isn t properly expressed by fuzzy set the neutrosophic set deals these forms of uncertainty this paper presents a model for shortest path problem with various arrangements of integer valued trapezoidal neutrosophic invtpns and integer valued triangular neutrosophic invtrns we characterized this issue as neutrosophic shortest way problem nsspp the established linear programming lp model solves the classical spp that consists of crisp parameters to the simplest of our data there s no multi objective applied mathematics approach in literature for finding the neutrosophic shortest path problem nsspp

Nanoelectronics, Circuits and Communication Systems 2020-11-24 food waste to valuable resources applications and management compiles current information pertaining to food waste placing particular emphasis on the themes of food waste management biorefineries valuable specialty products and technoeconomic analysis following its introduction this book explores new valuable resource technologies the bioeconomy the technoeconomical evaluation of food waste based biorefineries and the policies and regulations related to a food waste based economy it is an ideal reference for researchers and industry professionals working in the areas of food waste valorization food science and technology food producers policymakers and ngos environmental technologists environmental engineers and students studying environmental engineering food science and more presents recent advances trends and challenges related to food waste valorization contains invaluable knowledge on food waste management biorefineries valuable specialty products and technoeconomic analysis highlights modern advances and applications of food waste bioresources in various products recovery

The Routledge Companion to Strategic Marketing 2020-04-28 handbook of functionalized nanomaterials environmental health and safety discusses the reactive properties of fnms used in a range of applications and their toxic impact on the environment nanomaterials have unique properties that can make them highly reactive this reactivity can cause unwanted interactions with living cells an increase in oxidative stress or damage to genetic material resulting in damage to the environment and local wildlife this negative impact is often further increased after surface functionalization of

nanomaterials with other materials which offer unique properties of their own to ensure environmental safety and ecological balance rigorous toxicity testing of functionalized nanomaterials fnms is necessary this book discusses the toxicological uncertainties of fnms and the limitations of fnms in a range of applications later chapters propose methods to reliably assess the harm that functionalized nanomaterials can cause to the environment and wildlife as well covering recent developments in the field of environmental health safety the book concludes with a discussion on the future prospects of safe functionalized nanomaterials offers a novel integrated approach bridging the gap between fnms and environmental health and safety analyses the reactive properties of fnms and their toxicological potential provides an in depth look at the impact of functionalized nanomaterials on the environment

A Multi Objective Programming Approach to Solve Integer Valued Neutrosophic Shortest Path Problems 2021-08-23 this book reviews recent research advances in sustainable agriculture with focus on crop production biodiversity and biofuels in africa and asia

Food Waste to Valuable Resources 2020-02-12 handbook of lung targeted drug delivery systems recent trends and clinical evidences covers every aspect of the drug delivery to lungs the physiology and pharmacology of the lung modelling for lung delivery drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications with the advent of nano sciences and significant development in the nano particulate drug delivery systems there has been a renewed interest in the lung as an absorption surface for various drugs the emergence of the covid 19 virus has brought lung and lung delivery systems into focus this book covers new developments and research used to address the prevention and treatment of respiratory diseases written by well known scientists with years of experience in the field this timely handbook is an excellent reference book for the scientists and industry professionals key features focuses particularly on the chemistry clinical pharmacology and biological developments in this field of research presents comprehensive information on emerging nanotechnology applications in diagnosing and treating pulmonary diseases explores drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications examines specific formulations targeted to pulmonary systems

Handbook of Functionalized Nanomaterials 2021-10-17 a groundbreaking book to offer a a comprehensive account of important reactions involving arynes modern aryne chemistry is the first book on the market to offer a conceptual framework to the reactions related to arynes it also provides a systematic introduction to the cycloaddition reactions insertion reactions and transition metal catalyzed transformations of arynes the author a noted expert on the topic highlights a novel strategy for carbon carbon and carbon heteroatom bond construction using arynes the book reveiws the recent use of aryne chemistry for the development of new multicomponent reactions new advances in this area has shown rapid emergence of a new class of reactions classified under rearrangement reactions the author also includes information on aryne methods that have been employed for the synthesis of several natural products the simplicity and sophistication of the synthetic strategy using arynes can serve as a springboard for organic chemists to explore new possibilities and imagine applications of the concept of arynes this important book presents a one of kind comprehensive guide to arynes reactions offers a proven approach to the synthesis of natural product and polymers reviews the most recent developments in the carbon carbon and carbon heteroatom bond forming reactions involving arynes written for organic pharmaceutical medicinal natural products and catalytic chemists modern aryne chemistry offers a comprehensive review of the fundamentals of reactions related to arynes and the most recent developments in the field

Sustainable Agriculture Reviews 40 2021-08-23 urban water crisis and management strategies for sustainable development sixth edition presents solutions for the current challenges of urban water and management strategies through contributed chapters a framework is laid out for a reduction of the use of groundwater heavily overused as a solution and the alternative options for the supply of water to cities or for urban water sections discuss urban water its problems and management approaches address the root causes of the water crisis in urban areas and cover the scientific and technical knowledge necessary to manage water resources significant gaps between developed and developing nations in the procedure of water management are also addressed along with practical information regarding recycling and the reuse of wastewater which is useful as baseline data for the future presents

the quantitative study of water supply in urban areas identifies water scarcity in megacities and provides management approaches for sustainable development identifies technology and the instruments required for the management and safe supply of water includes case studies where these technologies have been successfully used

Handbook of Lung Targeted Drug Delivery Systems 2022-07-20 reactive polymers fundamentals and applications a concise guide to industrial polymers third edition introduces engineers and scientists to a range of reactive polymers and then details their applications and performance benefits basic principles and industrial processes are described for each class of reactive resin thermoset as well as additives the curing process applications and uses the initial chapters are devoted to individual resin types e g epoxides cyanacrylates followed by more general chapters on topics such as reactive extrusion and dental applications injection molding of reactive polymers radiation curing thermosetting elastomers and reactive extrusion equipment are covered as well the use of reactive polymers enables manufacturers to make chemical changes at a late stage in the production process which in turn cause changes in performance and properties material selection and control of the reaction are essential to achieve optimal performance material new to this edition includes the most recent developments applications and commercial products for each chemical class of thermosets as well as sections on fabrication methods reactive biopolymers recycling of reactive polymers and case studies covers the basics and most recent developments including reactive biopolymers recycling of reactive polymers nanocomposites and fluorosilicones offers an indispensable guide for engineers and advanced students alike provides extensive literature and patent review reflects a thorough review of all literature published in this area since 2014 features revised and updated chapters to reflect the latest research in reactive polymers

Modern Aryne Chemistry 2017-10-31 in the current age of information explosion newly invented technological sensors and software are now tightly integrated with our everyday lives many sensor processing algorithms have incorporated some forms of computational intelligence as part of their core framework in problem solving these algorithms have the capacity to generalize and discover knowledge for themselves and learn new information whenever unseen data are captured the primary aim of sensor processing is to develop techniques to interpret understand and act on information contained in the data the interest of this book is in developing intelligent signal processing in order to pave the way for smart sensors this involves mathematical advancement of nonlinear signal processing theory and its applications that extend far beyond traditional techniques it bridges the boundary between theory and application developing novel theoretically inspired methodologies targeting both longstanding and emergent signal processing applications the topic ranges from phishing detection to integration of terrestrial laser scanning and from fault diagnosis to bio inspiring filtering the book will appeal to established practitioners along with researchers and students in the emerging field of smart sensors processing

Urban Water Crisis and Management 2020-12-29

Reactive Polymers: Fundamentals and Applications

Sensor Signal and Information Processing II

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