

Nuclear Power Plant Instrumentation And Control Systems For Safety And Security Advances In Environmental Engineering And Green Technologies Aeegt

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Thermoelectric Materials - Ken
Kurosaki 2020-06-08
How can you design good

thermoelectric materials? This
book covers thermoelectric
material concepts and

synthesis techniques in particular focusing methods for enhancing current materials designs to achieve the greatest thermoelectric efficiencies.

This book is ideal for researchers and advanced students of materials science, physics, and energy.

Innovative Materials and Systems for Energy Harvesting Applications -

Mescia, Luciano 2015-04-30

Wearable electronics, wireless devices, and other mobile technologies have revealed a deficit and a necessity for innovative methods of gathering and utilizing power. Drawing on otherwise wasted sources of energy, such as solar, thermal, and biological, is an important part of discovering future energy solutions. *Innovative Materials and Systems for Energy Harvesting Applications* reports on some of the best tools and technologies available for powering humanity's growing thirst for electronic devices, including piezoelectric, solar, thermoelectric, and

electromagnetic energies. This book is a crucial reference source for academics, industry professionals, and scientists working toward the future of energy.

Complex Systems and Dependability - Wojciech Zamojski 2012-07-11

Typical contemporary complex system is a multifaceted amalgamation of technical, information, organization, software and human (users, administrators and management) resources.

Complexity of such a system comes not only from its involved technical and organizational structure but mainly from complexity of information processes that must be implemented in the operational environment (data processing, monitoring, management, etc.). In such case traditional methods of reliability analysis focused mainly on technical level are usually insufficient in performance evaluation and more innovative methods of dependability analysis must be applied which are based on

systems which should exhibit some or all of these attributes.

" The concept of WG 10. 4 was formulated during the IFIP Working Conference on Reliable Computing and Fault Tolerance on September 27-29, 1979 in London, England, held in conjunction with the Europ-IFIP 79 Conference. Profs A. Avi~ienis (UCLA, Los Angeles, USA) and A.

Advanced Materials Science and Technology - Shijie Zhu
2013-03-11

Selected, peer reviewed papers from the 8th International Forum on Advanced Materials Science and Technology (IFAMST 8) August 1-4, 2012, Fukuoka Institute of Technology, Japan

Green Production Strategies for Sustainability - Tsai,

Sang-Bing 2017-11-30
When generating electronic products, manufacturing enterprises are producing pollution and waste that is harmful to the environment. As a result of this increasing event, green production has become a valuable research topic. Green Production

Strategies for Sustainability is an essential reference source for the latest empirical research and relevant theoretical frameworks on creating profit through environmentally friendly operating processes. Including coverage on a range of topics such as corporate social responsibility, environmental performance, and green supply chain, this book is ideally designed for managers, professionals, and researchers seeking current research on green production use in sustainability.

Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities

- Vesco, Andrea 2015-04-30

As population growth accelerates, researchers and professionals face challenges as they attempt to plan for the future. Urban planning is a significant component in addressing the key concerns as the world population moves towards the city and leaves the rural environment behind, yet

there are many factors to consider for a well rounded community. The Handbook of Research on Social, Economic, and Environmental Sustainability in the Development of Smart Cities brings together the necessary research and interdisciplinary discussion to address dilemmas created by population growth and the expansion of urban environments. This publication is an essential reference source for researchers, academicians, investors, and practitioners interested in the urban planning and technological advancements necessary for the creation of smart cities.

Safety of Nuclear Power Plants
- International Atomic Energy Agency 2012

On the basis of the principles included in the Fundamental Safety Principles, IAEA Safety Standards Series No. SF-1, this Safety Requirements publication establishes requirements applicable to the design of nuclear power plants. It covers the design phase and provides input for the safe operation of the power plant. It

elaborates on the safety objective, safety principles and concepts that provide the basis for deriving the safety requirements that must be met for the design of a nuclear power plant. Contents: 1. Introduction; 2. Applying the safety principles and concepts; 3. Management of safety in design; 4. Principal technical requirements; 5. General plant design; 6. Design of specific plant systems.

Big Data Analytics for Smart and Connected Cities - Dey, Nilanjan 2018-09-07

To continue providing people with safe, comfortable, and affordable places to live, cities must incorporate techniques and technologies to bring them into the future. The integration of big data and interconnected technology, along with the increasing population, will lead to the necessary creation of smart cities. Big Data Analytics for Smart and Connected Cities is a pivotal reference source that provides vital research on the application of the integration of interconnected technologies and big data

analytics into the creation of smart cities. While highlighting topics such as energy conservation, public transit planning, and performance measurement, this publication explores technology integration in urban environments as well as the methods of planning cities to implement these new technologies. This book is ideally designed for engineers, professionals, researchers, and technology developers seeking current research on technology implementation in urban settings.

European Symposium on Computer-Aided Process Engineering-15 - L. Puigjaner
2005

Advanced Nanomaterials for Water Engineering, Treatment, and Hydraulics - Saleh, Tawfik A.
2017-01-30

While nanotechnology has been a booming research field for years, the study of how it can be used alongside water engineering has not been deeply explored. By examining the ways in which nanomaterials can aid

hydraulics, these tools can be used for water purification, water treatments, and a vast array of other uses that will make water engineering easier and safer. Advanced Nanomaterials for Water Engineering, Treatment, and Hydraulics is a comprehensive reference source for the latest research-based material on the use of progressive nanotechnologies for water technologies. Featuring coverage on relevant topics such as water purification, nano-metal oxides, chitosan nanoparticles, and contaminated waste water, this is an ideal reference source for engineers, students, academics, and researchers seeking innovative perspectives on the use of nanomaterials in water engineering.

Digital Transformation - Stanisław Wrycza
2021-09-14

This book constitutes the refereed proceedings of the 13th PLAIS EuroSymposium 2021 which was held in Sopot, Poland, on September 23, 2021. The objective of the

Components, Networks and Systems Implementation -

Vyacheslav Kharchenko
2017-04-11

This book presents modern approaches to improving the energy efficiency, safety and environmental performance of industrial processes and products, based on the application of advanced trends in Green Information Technologies (IT) Engineering to components, networks and complex systems (software, programmable and hardware components, communications, Cloud and IoT-based systems, as well as IT infrastructures). The book's 16 chapters, prepared by authors from Greece, Malaysia, Russia, Slovakia, Ukraine and the United Kingdom, are grouped into four sections: (1) The Green Internet of Things, Cloud Computing and Data Mining, (2) Green Mobile and Embedded Control Systems, (3) Green Logic and FPGA Design, and (4) Green IT for Industry and Smart Grids. The book will motivate researchers and engineers from different IT

domains to develop, implement and propagate green values in complex systems. Further, it will benefit all scientists and graduate students pursuing research in computer science with a focus on green IT engineering.

Handbook of Research on Emerging Developments and Environmental Impacts of Ecological Chemistry -

Duca, Gheorghie 2019-12-06

Pollution has been a developing problem for quite some time in the modern world, and it is no secret how these chemicals negatively affect the environment. With these contaminants penetrating the earth's water supply, affecting weather patterns, and threatening human health, it is critical to study the interaction between commercially produced chemicals and the overall ecosystem.

Understanding the nature of these pollutants, the extent in which they are harmful to humans, and quantifying the total risks are a necessity in protecting the future of our world. The Handbook of

Research on Emerging Developments and Environmental Impacts of Ecological Chemistry is an essential reference source that discusses the process of chemical contributions and their behavior within the environment. Featuring research on topics such as organic pollution, biochemical technology, and food quality assurance, this book is ideally designed for environmental professionals, researchers, scientists, graduate students, academicians, and policymakers seeking coverage on the main concerns, approaches, and solutions of ecological chemistry in the environment.

Computer Vision and Information Technology - R.

R. Manza 2010

Spread in 133 articles divided in 20 sections the present treatises broadly discusses:
Part 1: Image Processing Part 2: Radar and Satellite Image Processing Part 3: Image Filtering Part 4: Content Based Image Retrieval Part 5: Color Image Processing and Video

Processing Part 6: Medical Image Processing Part 7: Biometric Part 8: Network Part 9: Mobile Computing Part 10: Pattern Recognition Part 11: Pattern Classification Part 12: Genetic Algorithm Part 13: Data Warehousing and Mining Part 14: Embedded System Part 15: Wavelet Part 16: Signal Processing Part 17: Neural Network Part 18: Nanotechnology and Quantum Computing Part 19: Image Analysis Part 20: Human Computer Interaction
Biomaterials and Applications - Tawee Tunkasiri 2012-04-25
Volume is indexed by Thomson Reuters CPCI-S (WoS). These proceedings bring together the invited and contributed articles presented at Chiang Mai International Conference on Biomaterials & Applications (CMICBA 2011). The main emphasis of the conference was placed on (a) biomaterials science and related disciplines, including mathematics, physics, biology and chemistry, in conjunction with (b) applications of biomaterials in areas such as life sciences,

cosmetics, agriculture and the environment.

Privacy and Security Policies in Big Data - Tamane, Sharvari
2017-03-03

In recent years, technological advances have led to significant developments within a variety of business applications. In particular, data-driven research provides ample opportunity for enterprise growth, if utilized efficiently. Privacy and Security Policies in Big Data is a pivotal reference source for the latest research on innovative concepts on the management of security and privacy analytics within big data. Featuring extensive coverage on relevant areas such as kinetic knowledge, cognitive analytics, and parallel computing, this publication is an ideal resource for professionals, researchers, academicians, advanced-level students, and technology developers in the field of big data.

Handbook of Research on Waste Diversion and Minimization Technologies

for the Industrial Sector - Rathoure, Ashok K. 2021-01-08

Due to various issues in the world including rapid urbanization and industrial processes, waste generation has reached levels that are becoming detrimental to the environment and the global population. Waste management has remained a challenging issue for many professional sectors as it is directly linked to an organization's performance; however, the implementation of efficient and cost-effective waste minimization plans is the first step in improving the global environment. Innovative technologies in waste management are emerging and can help professionals looking to implement more efficient methods of pollution control. The Handbook of Research on Waste Diversion and Minimization Technologies for the Industrial Sector is a pivotal reference source that provides vital research on the application of modern pollution-control methodologies in industrialized environments.

While highlighting topics such as life cycle assessment, bioremediation, and thermal waste treatment, this publication explores environmental risk reduction scenarios as well as sustainable waste-collecting solutions. This book is ideally designed for researchers, industrialists, environmentalists, practitioners, policymakers, scientists, students, and academicians seeking current research on innovative advancements in waste minimization techniques.

Handbook of Research on Globalized Agricultural Trade and New Challenges for Food Security - Erokhin, Vasili 2019-10-25

Free trade promotes economic growth through international competition and the efficient allocation of resources while also helping to stabilize food supplies between countries that have an overabundance of product and countries that have a shortage. However, sudden price surges can threaten the social cohesion of developing countries and may

lead to malnutrition and stunted growth. Balancing trade liberalization and protectionism is imperative for the provision of food security for all. The Handbook of Research on Globalized Agricultural Trade and New Challenges for Food Security is an essential publication that seeks to improve food security, food independence, and food sovereignty in the conditions of globalized agricultural trade and addresses the contemporary issues of agricultural trade including major commodities and food products traded between major countries, directions of trade, and trends. The book also examines the effects of tariff escalations, administrative restrictions, other forms of trade protectionism on food security, and the emerging trade tensions between major actors such as the US, China, the EU, and Russia. Featuring research on topics including plant fertility, dietary diversity, and protectionism, this book is ideally designed for government officials,

policymakers, agribusiness managers, stakeholders, international tradesmen, researchers, industry professionals, academicians, and students.

Principles and Structures of FPGAs - Hideharu Amano
2018-09-03

This comprehensive textbook on the field programmable gate array (FPGA) covers its history, fundamental knowledge, architectures, device technologies, computer-aided design technologies, design tools, examples of application, and future trends.

Programmable logic devices represented by FPGAs have been rapidly developed in recent years and have become key electronic devices used in most IT products. This book provides both complete introductions suitable for students and beginners, and high-level techniques useful for engineers and researchers in this field. Differently developed from usual integrated circuits, the FPGA has unique structures, design methodologies, and application

techniques. Allowing programming by users, the device can dramatically reduce the rising cost of development in advanced semiconductor chips. The FPGA is now driving the most advanced semiconductor processes and is an all-in-one platform combining memory, CPUs, and various peripheral interfaces. This book introduces the FPGA from various aspects for readers of different levels. Novice learners can acquire a fundamental knowledge of the FPGA, including its history, from Chapter 1; the first half of Chapter 2; and Chapter 4. Professionals who are already familiar with the device will gain a deeper understanding of the structures and design methodologies from Chapters 3 and 5. Chapters 6-8 also provide advanced techniques and cutting-edge applications and trends useful for professionals. Although the first parts are mainly suitable for students, the advanced sections of the book will be valuable for professionals in acquiring an in-depth

understanding of the FPGA to maximize the performance of the device.

Nuclear Power Plant Instrumentation and Control Systems for Safety and Security

- Michael Yastrebenetsky 2014

Accidents and natural disasters involving nuclear power plants such as Chernobyl, Three Mile Island, and the recent meltdown at Fukushima are rare, but their effects are devastating enough to warrant increased vigilance in addressing safety concerns.

Nuclear Power Plant Instrumentation and Control Systems for Safety and Security evaluates the risks inherent to nuclear power and methods of preventing accidents through computer control systems and other such emerging technologies.

Students and scholars as well as operators and designers will find useful insight into the latest security technologies with the potential to make the future of nuclear energy clean, safe, and reliable.

Advances in Environmental

Engineering - Guo Dong Zhang
2012-11-29

These are the proceedings of the 3rd International Conference on Advanced Micro-Device Engineering (AMDE 2011), organized by the Advanced Technology Research Center, Gunma University, which was held on the 8th December 2011 in Kiryu, Japan. The scope of the conference covered: Materials Science, Chemical Science and Technology, Nano-Science and Technology, Photonic Devices and Technology, Novel Measurement and System Technology, Information and Communication Engineering and Medical Engineering. Volume is indexed by Thomson Reuters CPCI-S (WoS).

Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods

- Olej, Vladimir
2010-11-30

Understanding the advancement of sustainable development is critical to managing human activities to avoid the overexploitation of

resources and pollution of the environment beyond tolerable levels. Sustainable development involves not only preservation and care of the environment, but also recognition of the complex relations between economic, social and living systems. Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods presents processing methods and their applications, which are practical for decision making and task management at the regional level as well as for scientific studies in sustainable development assessment. This book serves as a reference guide for post-graduate students in the field of management as well as a critical guide for managers, government officials, and information professionals.

Precision Agriculture Technologies for Food Security and Sustainability -

Abd El-Kader, Sherine M.

2020-10-16

Precision agriculture integrates new technologies

with the agronomic experience to intelligently manage the high spatial variability of all agricultural variables and the time scales at which these variables change. The right application of this approach increases the size and quality of the agricultural production; saves resources; improves environmental quality; helps to achieve self-sufficiency, food security, and agricultural sustainability; increases exports; and more. Precision Agriculture Technologies for Food Security and Sustainability is an essential reference source that compiles a comprehensive, multidisciplinary review of current research in the field of precision agriculture. It also discusses cutting-edge tools and models that can help facilitate and improve the systems implementation. Featuring coverage of a wide range of topics including agronomy, public policy, and internet of things, this book is ideally designed for agriculturalists, government officials, economists,

environmentalists, academicians, researchers, students, and engineers in the fields of electronics, ICT, and agriculture.

MPLS Fundamentals - Luc De Ghein 2007

"A comprehensive introduction to MPLS theory and practice"--Cover.

Green IT Engineering: Concepts, Models, Complex Systems Architectures - Vyacheslav Kharchenko 2016-09-21

This volume provides a comprehensive state of the art overview of a series of advanced trends and concepts that have recently been proposed in the area of green information technologies engineering as well as of design and development methodologies for models and complex systems architectures and their intelligent components. The contributions included in the volume have their roots in the authors' presentations, and vivid discussions that have followed the presentations, at a series of workshop and seminars held

within the international TEMPUS-project GreenCo project in United Kingdom, Italy, Portugal, Sweden and the Ukraine, during 2013-2015 and at the 1st - 5th Workshops on Green and Safe Computing (GreenSCom) held in Russia, Slovakia and the Ukraine. The book presents a systematic exposition of research on principles, models, components and complex systems and a description of industry- and society-oriented aspects of the green IT engineering. A chapter-oriented structure has been adopted for this book following a "vertical view" of the green IT, from hardware (CPU and FPGA) and software components to complex industrial systems. The 15 chapters of the book are grouped into five sections: (1) Methodology and Principles of Green IT Engineering for Complex Systems, (2) Green Components and Programmable Systems, (3) Green Internet Computing, Cloud and Communication Systems, (4) Modeling and Assessment of Green Computer

Systems and Infrastructures, and (5) Green PLC-Based Systems for Industry Applications. The chapters provide an easy to follow, comprehensive introduction to the topics that are addressed, including the most relevant references, so that anyone interested in them can start the study by being able to easily find an introduction to the topic through these references. At the same time, all of them correspond to different aspects of the work in progress being carried out by various research groups throughout the world and, therefore, provide information on the state of the art of some of these topics, challenges and perspectives.

Waste Management Techniques for Improved Environmental and Public Health: Emerging Research and Opportunities - Tsai, Sang-Bing 2019-12-27

A central concern that has remained relevant in recent years has been the management of waste and pollution. Improper disposal methods such as open-air

burning and unsafe recycling have led to significant public and environmental health issues including respiratory disorders, resource depletion, and infant mortality. Adopting new waste management techniques is a necessity in order to preserve the health of the global community and ecosystem. Waste Management Techniques for Improved Environmental and Public Health: Emerging Research and Opportunities provides innovative insights into the advancing methods and technologies of reducing pollution and promoting sustainable development. The content within this publication examines ecological technologies, risk assessment, and green operation. It is designed for ecologists, biologists, researchers, enterprises, academicians, policymakers, scientists, environmental engineers, and students seeking current research on developing theories and techniques within waste moderation and environmental protection.

2017 International Conference on Inventive Computing and Informatics (ICICI) - IEEE Staff

2017-11-23

International Conference on Inventive Computing and Informatics (ICICI 2017) is being organized on November 23 24, 2017 by the Ranganathan Engineering College ICICI 2017 will provide an outstanding international forum for sharing knowledge and results in all fields of science, engineering and Technology ICICI provides quality key experts who provide an opportunity in bringing up innovative ideas Recent updates in the in the field of technology will be a platform for the upcoming researchers

Advanced Design of Wastewater Treatment Plants: Emerging Research and Opportunities - Hussain, Athar 2019-05-31

With the advancement of new technologies, existing wastewater treatment units need to be reexamined to make them more efficient and to

release the load currently placed on them. Thus, there is an urgent need to develop and adopt the latest design methodology to determine and remove harmful impurities from water sources. Advanced Design of Wastewater Treatment Plants: Emerging Research and Opportunities is a critical scholarly resource that explores the design of various units of wastewater treatment plants and treatment technologies that can produce reusable quality water from wastewater. The book covers topics that include the basic philosophy of wastewater treatment, designing principles of various wastewater treatment units, conventional treatment systems, and advanced treatment processes. It is an integral reference source for engineers, environmentalists, waste authorities, solid waste management companies, landfill operators, legislators, researchers, and academicians.

Piezoelectric Energy Harvesting Systems - Junrui Liang 2024-03-12

This book investigates in detail piezoelectric energy harvesting (PEH) technology, assessing its potential us to replace conventional electrochemical batteries with kinetic energy harvesters as sustainable power supplies in wireless sensor network (WSN) devices and mobile electronics, which are originally exposed to ambient vibration. Studies on PEH have attracted engineers and scientists from various disciplines, such as electrical, mechanical, materials, civil and biomedical engineering. Pursuing a holistic approach, the book establishes a fundamental framework for this topic, while emphasizing the importance of integrated analysis and the significant influence of circuit issues in the design and optimization of PEH systems. This approach will help readers from different disciplines recognize the essential aspects of and milestones towards the optimization of PEH systems in practice. The book is intended for undergraduate and graduate students who are

interested in energy harvesting technology, researchers investigating kinetic energy harvesting systems, and structure/circuit design engineers working on self-powered WSNs or other energy harvesting applications.

Promoting Climate Change Awareness through Environmental Education -

Wilson, Lynn 2015-09-22
Addressing global climate change is a monumental battle that can only be fought by the leaders of tomorrow, but future leaders are molded through education and shaped by the leaders of today. While the pivotal role of education in spreading awareness of climate change is one universally espoused, equally universal is the recognition that current education efforts are falling woefully short. Promoting Climate Change Awareness through Environmental Education stems the rising tide of shortcomings in environmental education by plugging a known gap in current research and opening a dialogue for the future.

Targeting an audience of young scholars, academics, researchers, and policymakers, this volume provides a much needed dam of empirical evidence regarding the role of youth education in addressing one of the greatest challenges of our age. This timely publication focuses on topics such as building resilience to climate change, green learning spaces, gender issues and concerns for developing countries, and the impact of young adults on the future of environmental sustainability.

Springer Handbook of Atmospheric Measurements

- Thomas Foken 2021-11-09

This practical handbook provides a clearly structured, concise and comprehensive account of the huge variety of atmospheric and related measurements relevant to meteorologists and for the purpose of weather forecasting and climate research, but also to the practitioner in the wider field of environmental physics and ecology. The Springer Handbook of Atmospheric Measurements is divided into

six parts: The first part offers instructive descriptions of the basics of atmospheric measurements and the multitude of their influencing factors, fundamentals of quality control and standardization, as well as equations and tables of atmospheric, water, and soil quantities. The subsequent parts present classical in-situ measurements as well as remote sensing techniques from both ground-based as well as airborne or satellite-based methods. The next part focusses on complex measurements and methods that integrate different techniques to establish more holistic data. Brief discussions of measurements in soils and water, at plants, in urban and rural environments and for renewable energies demonstrate the potential of such applications. The final part provides an overview of atmospheric and ecological networks. Written by distinguished experts from academia and industry, each of the 64 chapters provides in-depth discussions of the

available devices with their specifications, aspects of quality control, maintenance as well as their potential for the future. A large number of thoroughly compiled tables of physical quantities, sensors and system characteristics make this handbook a unique, universal and useful reference for the practitioner and absolutely essential for researchers, students, and technicians.

Energy and Matter Fluxes of a Spruce Forest Ecosystem -

Thomas Foken 2017-02-27

This book focuses on fluxes of energy, carbon dioxide and matter in and above a Central European spruce forest. The transition from a forest affected by acid rain into a heterogeneous forest occurred as a result of wind throw, bark beetles and climate change. Scientific results obtained over the last 20 years at the FLUXNET site DE-Bay (Waldstein-Weidenbrunnen) are shown together with methods developed at the site, including the application of footprint models for data-

quality analysis, the coupling between the trunk space and the atmosphere, the importance of the Damköhler number for trace gas studies, and the turbulent conditions at a forest edge. In addition to the many experimental studies, the book also applies model studies such as higher-order closure models, Large-Eddy Simulations, and runoff models for the catchment and compares them with the experimental data. Moreover, by highlighting processes in the atmosphere it offers insights into the functioning of the ecosystem as a whole. It is of interest to ecologists, micrometeorologists and ecosystem modelers.

Impacts of Climate Change on Agriculture and Aquaculture -

Karmaoui, Ahmed 2020-08-28

Climate change is expected to influence several productive sectors, the most significant of which is agriculture.

Agriculture comprises an important sector of the global economy that includes crops, livestock, and seafood.

Agriculture, aquaculture, and

fisheries are closely linked to the climate, with changes in climatic conditions able to drastically affect animal and plant productivity, which in turn has a direct impact on human well-being. Impacts of Climate Change on Agriculture and Aquaculture is a critical scholarly publication that provides an integrated assessment of climate change impacts on agriculture, aquaculture, and fisheries and explores a set of strategies to secure sustainable food security. While highlighting the associations between climate change, food security, and socio-economic development, the book establishes an inventory of good agricultural practices for the adaptation to climate change and presents solutions for making agricultural and food systems more sustainable. Featuring a wide range of topics such as carbon sequestration, ecosystem management, and desertification, this book is ideal for agriculturalists, environmentalists, fisheries, marine biologists,

ichthyologists, government officials, academicians, policy makers, scientists, professionals, researchers, and students.

Management of Disused Sealed Radioactive Sources -

International Atomic Energy Agency 2014-12-02

This publication summarizes the reviewed information distributed in previous IAEA publications and provides an up to date, overall picture of the management of disused sealed radioactive sources (DSRS) based upon the current status and trends in this field. It incorporates the most recent experience in source management, including newly developed techniques used for DSRS conditioning and storage. Problems encountered and lessons learned are also highlighted in the publication in order to help avoid the mistakes commonly made in the past in managing disused sources.

Handbook of Research on Strategic Management for Current Energy Investments
- Yüksel, Serhat 2021-06-11

Energy has a wide range of uses within a country, including socially and economically. Providing everything from warmth and light to raw materials for industrial production, energy is an essential need for countries. Due to the importance of energy for countries, energy policies are extremely vital, and energy needs to be affordable, eco-friendly, and continuous so countries can provide for their people and continue to develop industrially. Without the availability of energy that is cheap and continuous, the effectiveness in the energy supply process will be reduced, and society will experience difficulties in having its daily energy needs met. The Handbook of Research on Strategic Management for Current Energy Investments analyzes current trends in energy production and use and identifies energy investment strategies in order to support affordable and available energy for all. Chapters within the book cover technological

developments that contribute to the reduction of price in energy production as well as renewable energy sources that provide continuity in energy production but do not emit carbon into the atmosphere. This book highlights topics that cover environmental pollution, energy pricing, economic growth, carbon dioxide emission, and energy management. It is ideal for engineers, technicians, managers, researchers, academicians, policymakers, government officials, and students in related fields.

Ethnobotany of the Himalayas - Ripu M. Kunwar
2021-07-29

Research in recent years has increasingly shifted away from purely academic research, and into applied aspects of the discipline, including climate change research, conservation, and sustainable development. It has by now widely been recognized that “traditional” knowledge is always in flux and adapting to a quickly changing environment. Trends of globalization, especially the

globalization of plant markets, have greatly influenced how plant resources are managed nowadays. While ethnobotanical studies are now available from many regions of the world, no comprehensive encyclopedic series focusing on the worlds mountain regions is available in the market. Scholars in plant sciences worldwide will be interested in this website and its dynamic content. The field (and thus the market) of ethnobotany and ethnopharmacology has grown considerably in recent years. Student interest is on the rise, attendance at professional conferences has grown steadily, and the number of professionals calling themselves ethnobotanists has increased significantly (the various societies, like the Society for Economic Botany, the International Society of Ethnopharmacology, the Society of Ethnobiology, and the International Society for Ethnobiology currently have thousands of members). Growth has been most robust in BRIC countries. This new

MRW on Ethnobotany of the Himalayas takes advantage of the increasing international interest and scholarship in the field of mountain research. It includes the best and latest research on a full range of descriptive, methodological, theoretical, and applied research on the most important plants in the Himalayas. Each contribution is scientifically rigorous and contributes to the overall field of study.

Nuclear Power Plant Instrumentation and Control Systems for Safety and Security - Yastrebenetsky,

Michael 2014-02-28

Accidents and natural disasters involving nuclear power plants such as Chernobyl, Three Mile Island, and the recent meltdown at Fukushima are rare, but their effects are devastating enough to warrant increased vigilance in addressing safety concerns.

Nuclear Power Plant Instrumentation and Control Systems for Safety and Security evaluates the risks inherent to nuclear power and methods of preventing

accidents through computer control systems and other such emerging technologies. Students and scholars as well as operators and designers will

find useful insight into the latest security technologies with the potential to make the future of nuclear energy clean, safe, and reliable.