

University Of Southern Queensland Faculty Of Engineering

Advanced Oxidation Technologies Marta I. Litter,Roberto J. Candal,J. Martin Meichtry.2014-03-03 Advanced Oxidation Technologies (AOTs) or Processes (AOPs) are relatively new and innovative technologies to remove harmful and toxic pollutants. The most important processes among them are those using light, such as UVC/H₂O₂, photo-Fenton and heterogeneous photocatalysis with TiO₂. These technologies are also relatively low-cost and therefore usef

Mobile Learning in Higher Education in the Asia-Pacific Region Angela Murphy,Helen Farley,Laurel Evelyn Dyson,Hazel Jones.2017-07-06 If mobile technologies are to be effectively used in education, how do we best implement sustainable mobile solutions for teaching and learning? The aim of this handbook is to support educators and policy makers who are investing in innovations in digital education to develop effective and sustainable mobile learning solutions for higher education environments. Authors from sixteen countries across the Asia-Pacific region have collaborated to share their experiences with developing and implementing mobile learning initiatives. These projects focus on a variety of aspects of mobile learning innovation, from the trial adoption of existing social media platforms on mobile devices and the development of specialised applications or mobile learning systems, to the large-scale, interuniversity implementation of technologies and pedagogies to support mobile learning. Each chapter addresses challenges and solutions at one or more levels of mobile learning innovation within the education system, encompassing the student perspective, the educator perspective, technical processes, policies and organisational strategy, and leadership. The book also offers a unique perspective on the integration of mobile learning innovations within the educational, political and cultural environments of Asia-Pacific countries.

Geothermal Water Management Jochen Bundschuh,Barbara Tomaszewska.2018-03-12 Availability of and adequate accessibility to freshwater and energy are two key technological and scientific problems of global significance. At the end of the 20th century, the deficit of water for human consumption and economic application forced us to focus on rational use of resources. Increasing the use of renewable energy sources and improving energy efficiency is a challenge for the 21st century. Geothermal energy is heat energy generated and stored in the Earth, accumulated in hydrothermal systems or in dry rocks within the Earth's crust, in amounts which constitute the energy resources. The sustainable management of geothermal energy resources should be geared towards optimization of energy recovery, but also towards rational management of water resources since geothermal water serves both as energy carrier and also as valuable raw material. Geothermal waters, depending on their hydrogeothermal characteristics, the lithology of the rocks involved, the depth at which the resources occur and the sources of water supply, may be characterized by very diverse physicochemical parameters. This factor largely determines the technology to be used in their exploitation and the way the geothermal water can be used. This book is focused on the effective use of geothermal water and renewable energy for future needs in order to promote modern, sustainable and effective management of water resources. The research field includes crucial new areas of study: • an improvement in the management of freshwater resources through the use of residual geothermal water; • a review of the technologies available in the field of geothermal water treatment for its (re)use for energetic purposes and freshwater production, and • the development of balneotherapy. The book is aimed at professionals, academics and decision makers worldwide, water sector representatives and administrators, business enterprises specializing in renewable energy management and water treatment, working in the areas of geothermal energy usage, water resources, water supply and energy planning. This book has the potential to become a standard text used by educational institutions and research & development establishments involved in the geothermal water management.

Membrane Technologies for Water Treatment Alberto Figoli,Jan Hoinkis,Jochen Bundschuh.2016-02-18 Focuses on the application of membrane technologies in removing toxic metals\metalloids from water. Particular attention is devoted to the removal of arsenic, uranium, and fluoride. These compounds are all existing in the earth's crust at levels between two and five thousands micrograms per kg (parts per million) on average and these compounds can be considered highly toxic to humans, who are exposed to them primarily from air, food and water. In order to comply with the new maximum contaminant level, numerous studies have been undertaken to improve established treatments or to develop novel treatment technologies for removing toxic metals from contaminated surface and groundwater. Among the technologies available, applicable for water treatment, membrane technology has been identified as a promising technology to remove such toxic metals from water. The book describes both pressure driven (traditional processes, such as Nanofiltration, Reverse Osmosis, Ultrafiltration,etc) and more advanced membrane processes (such as forward osmosis, membrane distillation, and membrane bio-reactors) employed in the application of interest. Key aspect of this book is to provide information on both the basics of membrane technologies and on the results depending on the type of technology employed.

Online Experimentation: Emerging Technologies and IoT Maria Teresa Restivo,Alberto Cardoso,Ant—nio Mendes Lopes.2012-02-12 Book describes online experimentation, using fundamentally emergent technologies to build the resources and considering the context of IoT.Online Experimentation: Emerging Technologies and IoT is suitable for all who is involved in the development design

Geothermal Systems and Energy Resources Alper Baba,Jochen Bundschuh,D. Chandrasekharam.2014-03-07 In the region comprising Turkey and Greece, people have been using water from geothermal sources for bathing and washing of clothes since ancient times. This region falls within the Alpine-Himalayan orogenic belt and hence is a locus of active volcanism and tectonism and experiences frequent seismic events. This volcanic and tectonic activity has given rise to over 1500 geothermal springs. Its importance was recognized decades ago and the geothermal water is now being utilized for district heating, industrial processing, domestic water supply, balneology and electric power generation. The geothermal potential in this region is large. In Turkey alone it is estimated to be more than 31500 MWt while the proven potential is 4078 MWt. At present 2084 MWt is being utilized for direct applications in Turkey and 135 MWt in Greece. In Turkey electricity is produced for 166 MW installed capacity, whereas in Greece geothermal energy is presently not used for electricity production despite its potential. This book discusses the geochemical evolution of the thermal waters and thermal gases in terms of the current volcano-tectonic setting and associated geological framework that makes the region very important to the geothermal scientific community. The book explains, in a didactic way, the possible applications, depending on local conditions and scales, and it presents new and stimulating ideas for future developments of this renewable energy source. Additionally, the book discusses the role(s) of possible physicochemical processes in deep hydrothermal systems, the volatile provenance and relative contributions of mantle and crustal components to total volatile inventories. It provides the reader with a thorough understanding of the geothermal systems of this region and identifies the most suitable solutions for specific tasks and needs elsewhere in the world. It is the first time that abundant information and data from this region, obtained from intensive research during the last few decades, is unveiled to the international geothermal community. Thus, an international readership, in the professional and academic sectors, as well as in key institutions that deal with geothermal energy, will benefit from the knowledge from geothermal research and experiences obtained from the Aegean Region.

Structural Health Monitoring Technologies and Next-Generation Smart Composite Structures Jayantha Ananda Epaarachchi,Gayan Chanaka Kahandawa.2016-09-15 Due to the increased use of composite materials in aerospace, energy, automobile, and civil infrastructure applications, concern over composite material failures has grown, creating a need for smart composite structures that are able to self-diagnose and self-heal. Structural Health Monitoring Technologies and Next-Generation Smart Composite Structures provides valuable insight into cutting-edge advances in SHM, smart materials, and smart structures. Comprised of chapters authored by leading researchers in their respective fields, this edited book showcases exciting developments in general embedded sensor technologies, general sensor technologies, sensor response interrogation and data communication, damage matrix formulation, damage mechanics and analysis, smart materials and structures, and SHM in aerospace applications. Each chapter makes a significant contribution to the prevention of

structural failures by describing methods that increase safety and reduce maintenance costs in a variety of SHM applications.

Advances in Agricultural Machinery and Technologies Guangnan Chen.2018-03-05 The agricultural industry is dealing with enormous challenges across the globe, including the limited availability of arable lands and fresh water, as well as the effect of climate change. Machinery plays a crucial role in agriculture and farming systems, in order to feed the world's growing population. In the last decade, we have witnessed major advances in agricultural machinery and technologies, particularly as manufacturers and researchers develop and apply various novel ways of automation as well as the data and information gathering and analyzing capabilities of their machinery. This book presents the state-of-the-art information on the important innovations in the agricultural and horticultural industry. It reviews and presents different novel technologies and implementation of these technologies to optimize farming processes and food production. There are four sections, each addressing a specific area of development. Section I discusses the recent development of farm machinery and technology. Section II focuses on water and irrigation engineering. Section III covers harvesting and post-harvest technology. Section IV describes computer modelling and simulation. Each section highlights current industry trends and latest research progress. This book is ideal for those working in or are associated with the fields of agriculture, agri-food chain and technology development and promotion.

Air Quality and Livestock Farming Thomas Banhazi, Andres Aland, Jörg Hartung.2018-06-13 Air quality has a direct influence on health, welfare and production performance of livestock as the high concentrations of noxious gases, dust and airborne microorganisms are likely to reduce production efficiency and the general welfare of farm animals. Long term exposure to particulates in livestock buildings might also affect the respiratory health of farm workers. Dust in animal buildings contains many biologically active substances such as bacteria, fungi, endotoxins and residues of antibiotics (as a result of veterinary treatments) that are suspected to be hazardous to human health. Furthermore, air pollutants emitted from livestock buildings can reduce air, water and soil quality and can potentially undermine the health of nearby residents. Airborne emissions include ammonia, methane, nitrous oxide, particulates like dust and microorganisms. In addition, other potentially harmful substances such as heavy metals, antibiotic residues and components of disinfectants might be also emitted from livestock building that are potentially damaging to ecosystems. In this book, key aspects of agricultural air quality, such as monitoring, managing and reducing airborne pollutants in and around livestock facilities are reviewed. Features: addressing the raising awareness of the importance of optimal health and welfare for livestock species with contributions from international specialists and researchers providing up-to-date information for professionals involved in modern animal producti This book will be useful for farming professionals, academics, students, policy makers, business leaders, regulatory bodies and agricultural consultants.

Mathematical and Numerical Modeling in Porous Media Martin A. Diaz Viera, Pratap Sahay, Manuel Coronado, Arturo Ortiz Tapia.2012-07-24 Porous media are broadly found in nature and their study is of high relevance in our present lives. In geosciences porous media research is fundamental in applications to aquifers, mineral mines, contaminant transport, soil remediation, waste storage, oil recovery and geothermal energy deposits. Despite their importance, there is as yet no complete

Stability of slopes in cohesive frictional soil using upper bound collapse mechanism and numerical methods .1995

Sustainable Energy Solutions in Agriculture Jochen Bundschuh, Guangnan Chen.2014-03-07 Sustainability in agriculture and associated primary industries, which are both energy-intensive, is crucial for the development of any country. Increasing scarcity and resulting high fossil fuel prices combined with the need to significantly reduce greenhouse gas emissions, make the improvement of energy efficient farming and increased use of renewable energy essential. This book provides a technological and scientific endeavor to assist society and farming communities in different regions and scales to improve their productivity and sustainability. To fulfill future needs of a modern sustainable agriculture, this book addresses highly actual topics providing innovative, effective and more sustainable solutions for agriculture by using sustainable, environmentally friendly, renewable energy sources and modern energy efficient, cost-improved technologies. The book highlights new areas of research, and further R&D needs. It helps to improve food security for the rapidly growing world population and to reduce carbon dioxide emissions from fossil fuel use in agriculture, which presently contributes 22% of the global carbon dioxide emissions. This book provides a source of information, stimuli and incentives for what and how new and energy efficient technologies can be applied as effective tools and solutions in agricultural production to satisfy the continually increasing demand for food and fibre in an economically sustainable way, while contributing to global climate change mitigation. It will be useful and inspiring to decision makers working in different authorities, professionals, agricultural engineers, researchers, and students concerned with agriculture and related primary industries, sustainable energy development and climate change mitigation projects.

Numerical Simulation in Hydraulic Fracturing: Multiphysics Theory and Applications Xinpu Shen, William Standifird.2017-03-27 The expansion of unconventional petroleum resources in the recent decade and the rapid development of computational technology have provided the opportunity to develop and apply 3D numerical modeling technology to simulate the hydraulic fracturing of shale and tight sand formations. This book presents 3D numerical modeling technologies for hydraulic fracturing developed in recent years, and introduces solutions to various 3D geomechanical problems related to hydraulic fracturing. In the solution processes of the case studies included in the book, fully coupled multi-physics modeling has been adopted, along with innovative computational techniques, such as submodeling. In practice, hydraulic fracturing is an essential project component in shale gas/oil development and tight sand oil, and provides an essential measure in the process of drilling cuttings reinjection (CRI). It is also an essential measure for widened mud weight window (MWW) when drilling through naturally fractured formations; the process of hydraulic plugging is a typical application of hydraulic fracturing. 3D modeling and numerical analysis of hydraulic fracturing is essential for the successful development of tight oil/gas formations: it provides accurate solutions for optimized stage intervals in a multistage fracking job. It also provides optimized well-spacing for the design of zipper-frac wells. Numerical estimation of casing integrity under stimulation injection in the hydraulic fracturing process is one of major concerns in the successful development of unconventional resources. This topic is also investigated numerically in this book. Numerical solutions to several other typical geomechanics problems related to hydraulic fracturing, such as fluid migration caused by fault reactivation and seismic activities, are also presented. This book can be used as a reference textbook to petroleum, geotechnical and geothermal engineers, to senior undergraduate, graduate and postgraduate students, and to geologists, hydrogeologists, geophysicists and applied mathematicians working in this field. This book is also a synthetic compendium of both the fundamentals and some of the most advanced aspects of hydraulic fracturing technology.

Application of Nanotechnology in Membranes for Water Treatment Alberto Figoli, Jan Hoinkis, Sacide Alsoy Altinkaya, Jochen Bundschuh.2017-07-14 The book focuses on Application of Nanotechnology in Membranes for Water Treatment but not only provides a series of innovative solutions for water reclamation through advanced membrane technology but also serves as a medium to promote international cooperation and networking for the development of advanced membrane technology for Universal well-being and to achieve the common goal of supplying economically, environmentally and societally sustainable freshwater and better sanitation systems. This book is unique because the chapters were authored by established researchers all around the globe based on their recent research findings. In addition, this book provides a holistic coverage of membrane development for water treatment, from the membrane preparation and characterizations to the performance for specific processes and applications. Since that water scarcity has become a global risk and one of the most serious challenges for the scientific community in this century, the publication of this book is therefore significant as it will serve as a medium for a good reference of an alternative solution in water reclamation. This book will provide the readers with a thorough understanding of the different available approaches for manufacturing membranes both with innovative polymeric systems and inorganic nano-materials which could give enhanced functionalities, catalytic and antimicrobial activities to improve the performance of the existing membranes. It will be useful for leading decision and policy makers, water sector representatives and administrators, policy makers from the governments, business leaders, business houses in water treatment, and engineers/ scientists from both industrialized and developing countries as well.

GNSS Environmental Sensing Joseph Awange.2017-09-04 This book is the second edition of Environmental Monitoring using GNSS and highlights the latest developments in global navigation satellite systems (GNSS). It

features a completely new title and additional chapters that present emerging challenges to environmental monitoring—“climate variability/change and food insecurity.” Since the publication of the first edition, much has changed in both the development and applications of GNSS, a satellite microwave remote sensing technique. It is the first tool to span all four dimensions of relevance to humans (position, navigation, timing and the environment), and it has widely been used for positioning (both by military and civilians), navigation and timing. Its increasing use is leading to a new era of remote sensing that is now revolutionizing the art of monitoring our environment in ways never imagined before. On the one hand, nearly all GNSS satellites (Global Positioning System (GPS), Global Navigation Satellite System (GLONASS), Galileo and Beidou) have become operational, thereby providing high-precision, continuous, all-weather and near real-time remote sensing multi-signals beneficial to environmental monitoring. On the other hand, the emerging challenges of precisely monitoring climate change and the demand for the production of sufficient food for ever-increasing populations are pushing traditional monitoring methods to their limits. In this regard, refracted GNSS signals (i.e., occulted GNSS signals or GNSS meteorology) are now emerging as sensors of climate variability, while the reflected signals (GNSS reflectometry or GNSS-R) are increasingly finding applications in determining, e.g., soil moisture content, ice and snow thickness, ocean heights, and wind speed and direction, among others. Furthermore, the increasing recognition and application of GNSS-supported unmanned aircraft vehicles (UAV)/drones in agriculture (e.g., through the determination of water holding capacity of soil) highlights the new challenges facing GNSS. As such, this new edition three new chapters address GNSS reflectometry and applications; GNSS sensing of climate variability; and the applications in UAV/drones. Moreover, it explores the application of GNSS to support integrated coastal zone management.

Engineering Asset Management Joseph Mathew, Lin Ma, Andy Tan, Deryk Anderson. 2008-02-06 It is with great pleasure that we welcome you to the inaugural World Congress on Engineering Asset Management (WCEAM) being held at the Conrad Jupiters Hotel on the Gold Coast from July 11 to 14, 2006. More than 170 authors from 28 countries have contributed over 160 papers to be presented over the first three days of the conference. Day four will be host to a series of workshops devoted to the practice of various aspects of Engineering Asset Management. WCEAM is a new annual global forum on the various multidisciplinary aspects of Engineering Asset Management. It deals with the presentation and publication of outputs of research and development activities as well as the application of knowledge in the practical aspects of: strategic asset management risk management in asset management design and life-cycle integrity of physical assets asset performance and level of service models financial analysis methods for physical assets reliability modelling and prognostics information systems and knowledge management asset data management, warehousing and mining condition monitoring and intelligent maintenance intelligent sensors and devices regulations and standards in asset management human dimensions in integrated asset management education and training in asset management and performance management in asset management. We have attracted academics, practitioners and scientists from around the world to share their knowledge in this important emerging transdiscipline that impacts on almost every aspect of daily life.

Handbook of advances in Alkali-activated Concrete F Pacheco Torgal, Prinya Chindaprasirt, Togay Ozbakkaloglu. 2021-12-03 Advances on Alkali-activated Concrete, provides comprehensive information on materials, structural properties and realistic potential for the application of alkali-activated concretes and cements. Divided over seven key parts, including the design of alkali-activated concrete, their fabrication and curing, rheology, properties of alkali-activated concrete, durability, dynamic performance and LCA, the book will be an essential reference resource for academic and industrial researchers, materials scientists, chemists, manufacturers and civil engineers working with alkali-activated materials and concrete structures. Provides an essential guide on the latest developments in alkali-activated concrete Comprehensively examines alkali-activated concrete performance under cyclic loading Includes concrete systems containing coarser aggregates Presents several important cases studies of application

Smart Power Systems and Renewable Energy System Integration Dilan Jayaweera. 2016-03-08 This monograph presents a wider spectrum of researches, developments, and case specific studies in the area of smart power systems and integration of renewable energy systems. The book will be for the benefit of a wider audience including researchers, postgraduate students, practicing engineers, academics, and regulatory policy makers. It covers a wide range of topics from fundamentals, and modelling and simulation aspects of traditional and smart power systems to grid integration of renewables; Micro Grids; challenges in planning and operation of a smart power system; risks, security, and stability in smart operation of a power system; and applied research in energy storage.

Particulate Plastics in Terrestrial and Aquatic Environments Nanthi S. Bolan, M.B. Kirkham, Claudia Halsband, Dayanthi Nugegoda, Yong Sik Ok. 2020-07-30 The manufacture of plastic as well as its indiscriminate disposal and destruction by incineration pollutes atmospheric, terrestrial, and aquatic ecosystems. Synthetic plastics do not break down; they accumulate in the environment as macro-, micro-, and nanoplastics. These particulate plastics are a major source of pollutants in soil and marine ecosystems. Particulate Plastics in Terrestrial and Aquatic Environments provides a fundamental understanding of the sources of these plastics and the threats they pose to the environment. The book demonstrates the ecotoxicity of particulate plastics using case studies and offers management practices to mitigate particulate plastic contamination in the environment. Features · Describes physical and chemical properties of particulate plastics in terrestrial and aquatic ecosystems · Presents information on characteristics of particulate plastics as impacted by weathering processes · Provides numerous approaches for managing particulate plastic contamination · Identifies sources of particulate plastics in the environment; distribution and characteristics of particulate plastics; and management strategies of particulate plastics Written by a global team of scientists, this book is for researchers in the fields of environmental safety and waste management or individuals interested in the impact of particulate plastics on environmental health.

Composite Materials It Meng Low, Yu Dong. 2021-06-18 Composite materials have been well developed to meet the challenges of high-performing material properties targeting engineering and structural applications. The ability of composite materials to absorb stresses and dissipate strain energy is vastly superior to that of other materials such as polymers and ceramics, and thus they offer engineers many mechanical, thermal, chemical and damage-tolerance advantages with limited drawbacks such as brittleness. Composite Materials: Manufacturing, Properties and Applications presents a comprehensive review of current status and future directions, latest technologies and innovative work, challenges and opportunities for composite materials. The chapters present latest advances and comprehensive coverage of material types, design, fabrication, modelling, properties and applications from conventional composite materials to advanced composites such as nanocomposites, self-healing and smart composites. The book targets researchers in the field of advanced composite materials and ceramics, students of materials science and engineering at the postgraduate level, as well as material engineers and scientists working in industrial R& D sectors for composite material manufacturing. Comprehensive coverage of material types, design, fabrication, modelling, properties and applications from conventional composite materials to advanced composites such as nanocomposites, self-healing and smart composites Features latest advances in terms of mechanical properties and other material parameters which are essential for designers and engineers in the composite and composite reinforcement manufacturing industry, as well as all those with an academic research interest in the subject Offers a good platform for end users to refer to the latest technologies and topics fitting into specific applications and specific methods to tackle manufacturing or material processing issues in relation to different types of composite materials

Handbook of Probabilistic Models Pijush Samui, Dieu Tien Bui, Subrata Chakraborty, Ravinesh C. Deo. 2019-10-05 Handbook of Probabilistic Models carefully examines the application of advanced probabilistic models in conventional engineering fields. In this comprehensive handbook, practitioners, researchers and scientists will find detailed explanations of technical concepts, applications of the proposed methods, and the respective scientific approaches needed to solve the problem. This book provides an interdisciplinary approach that creates advanced probabilistic models for engineering fields, ranging from conventional fields of mechanical engineering and civil engineering, to electronics, electrical, earth sciences, climate, agriculture, water resource, mathematical sciences and computer sciences. Specific topics covered include minimax probability machine regression, stochastic finite element method, relevance vector machine, logistic regression, Monte Carlo simulations, random matrix, Gaussian process regression, Kalman filter, stochastic optimization, maximum likelihood, Bayesian inference, Bayesian update, kriging, copula-statistical models, and more. Explains the application of advanced probabilistic models encompassing multidisciplinary research Applies

probabilistic modeling to emerging areas in engineering Provides an interdisciplinary approach to probabilistic models and their applications, thus solving a wide range of practical problems

Membrane Technology for Water and Wastewater Treatment, Energy and Environment A.F. Ismail, Takeshi Matsuura. 2016-03-16 Realizing that water, energy and food are the three pillars to sustain the growth of human population in the future, this book deals with all the above aspects with particular emphasis on water and energy. In particular, the book addresses applications of membrane science and technology for water and wastewater treatment, energy and environment. Th

Computational Models for CO₂ Geo-sequestration & Compressed Air Energy Storage Rafid Al-Khoury, Jochen Bundschuh. 2014-04-17 A comprehensive mathematical and computational modeling of CO₂ Geosequestration and Compressed Air Energy Storage Energy and environment are two interrelated issues of great concern to modern civilization. As the world population will soon reach eight billion, the demand for energy will dramatically increase, intensifying the use of fossil fuels. Ut

Geothermal, Wind and Solar Energy Applications in Agriculture and Aquaculture Jochen Bundschuh, Guangnan Chen, D. Chandrasekharam, Janusz Piechocki. 2017-08-02 The agri-food chain consumes about one third of the world's energy production with about 12% of it for crop production and nearly 80% for processing, distribution, retail, preparation and cooking. The agri-food chain also accounts for 80-90% of total global freshwater use where 70% alone is for irrigation. Additionally, on a global scale, freshwater production consumes nearly 15% of the entire energy production. It can therefore be argued that making agriculture and the agri-food supply chain independent from fossil fuel use has a huge potential to contribute to global food security and climate protection not only for the next decades but also for the coming century. Provision of secure, accessible and environmentally sustainable supplies of water, energy and food must thus be a priority. One of the major objectives of the world's scientists, farmers, decisions makers and industrialists is to overcome the present dependence on fossil fuels in the agro-food sector. This dependency increases the volatility of food prices and affects economic access to sustenance. This book provides a critical review of recent developments in solar, wind and geothermal energy applications in agriculture and the agro-food sector such as processing, distribution, retail, preparation and cooking.

Transformations Through Blockchain Technology Sheikh Mohammad Idrees, Mariusz Nowostawski. 2022-03-07 The book serves as a connecting medium between various domains and Blockchain technology, discussing and embracing how Blockchain technology is transforming all the major sectors of the society. The book facilitates sharing of information, case studies, theoretical and practical knowledge required for Blockchain transformations in various sectors. The book covers different areas that provide the foundational knowledge and comprehensive information about the transformations by Blockchain technology in the fields of business, healthcare, finance, education, supply-chain, sustainability and governance. The book pertains to students, academics, researchers, professionals, and policy makers working in the area of Blockchain technology and related fields.

Encyclopedia of Environmental Management, Four Volume Set Sven Erik Jorgensen. 2012-12-13 Winner of an Outstanding Academic Title Award from CHOICE Magazine Encyclopedia of Environmental Management gives a comprehensive overview of environmental problems, their sources, their assessment, and their solutions. Through in-depth entries and a topical table of contents, readers will quickly find answers to questions about specific pollution and management issues. Edited by the esteemed Sven Erik Jørgensen and an advisory board of renowned specialists, this four-volume set shares insights from more than 500 contributors—all experts in their fields. The encyclopedia provides basic knowledge for an integrated and ecologically sound management system. Nearly 400 alphabetical entries cover everything from air, soil, and water pollution to agriculture, energy, global pollution, toxic substances, and general pollution problems. Using a topical table of contents, readers can also search for entries according to the type of problem and the methodology. This allows readers to see the overall picture at a glance and find answers to the core questions: What is the pollution problem, and what are its sources? What is the big picture, or what background knowledge do we need? How can we diagnose the problem, both qualitatively and quantitatively, using monitoring and ecological models, indicators, and services? How can we solve the problem with environmental technology, ecotechnology, cleaner technology, and environmental legislation? How do we address the problem as part of an integrated management strategy? This accessible encyclopedia examines the entire spectrum of tools available for environmental management. An indispensable resource, it guides environmental managers to find the best possible solutions to the myriad pollution problems they face. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact us to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367 / (email) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062 / (email) online.sales@tandf.co.uk

Flame Retardant Nanocomposites Sabu Thomas, Henri Vahabi, Lakshmi Priya Somasekharan. 2024-01-10 The huge increase in potential applications of polymer nanocomposites have made it necessary for researchers to address the fire safety issues of these materials. Flame Retardant Nanocomposites: Emergent Nanoparticles and their Applications covers the broad area of flame- retardant polymer nanocomposites, their preparation, fire retardant mechanisms and the various factors that affect them. The influence of various nanoparticles on their flammability is discussed in detail, as well as their structure, free radical trapping ability, char formation, and eventual barrier properties. The book will be a valuable reference resource for students, researchers and engineers covering this important field of research. The chapters discuss the effect of different nanoparticles, their dispersion, and effect of different polymer structures on fire retardant properties, as well as possible applications. Provides a detailed overview of fire retardant polymer nanocomposite systems, including different nanofillers Describes fire mechanisms behind nanocomposite structure and morphology Covers the latest developments and the most recent applications in industry, defense, and space *Innovative Materials and Methods for Water Treatment* Marek Bryjak, Nalan Kabay, Bernabe L. Rivas, Jochen Bundschuh. 2016-02-17 Due to increasing demand for potable and irrigation water, water suppliers have to use alternative resources. They either have to regenerate wastewater or deal with contaminated surface water. This book brings together the experiences of various experts in preparing of innovative materials that are selective for arsenic and chromium removal, and in

Green Aviation Emily S. Nelson, D.R. Reddy. 2018-06-12 Aircraft emissions currently account for ~3.5% of all greenhouse gas emissions. The number of passenger miles has increased by 5% annually despite 9/11, two wars and gloomy economic conditions. Since aircraft have no viable alternative to the internal combustion engine, improvements in aircraft efficiency and alternative fuel development become essential. This book comprehensively covers the relevant issues in green aviation. Environmental impacts, technology advances, public policy and economics are intricately linked to the pace of development that will be realized in the coming decades. Experts from NASA, industry and academia review current technology development in green aviation that will carry the industry through 2025 and beyond. This includes increased efficiency through better propulsion systems, reduced drag airframes, advanced materials and operational changes. Clean combustion and emission control of noise, exhaust gases and particulates are also addressed through combustor design and the use of alternative fuels. Economic imperatives from aircraft lifetime and maintenance logistics dictate the drive for drop-in fuels, blending jet-grade and biofuel. New certification standards for alternative fuels are outlined. Life Cycle Assessments are used to evaluate worldwide biofuel approaches, highlighting that there is no single rational approach for sustainable buildup. In fact, unless local conditions are considered, the use of biofuels can create a net increase in environmental impact as a result of biofuel manufacturing processes. Governmental experts evaluate current and future regulations and their impact on green aviation. Sustainable approaches to biofuel development are discussed for locations around the globe, including the US, EU, Brazil, China and India.

Springer Handbook of Robotics Bruno Siciliano, Oussama Khatib. 2016-07-27 The second edition of this handbook provides a state-of-the-art overview on the various aspects in the rapidly developing field of robotics. Reaching for the human frontier, robotics is vigorously engaged in the growing challenges of new emerging domains. Interacting, exploring, and working with humans, the new generation of robots will increasingly

touch people and their lives. The credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline. The ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the Springer Handbook of Robotics. The first edition of the handbook soon became a landmark in robotics publishing and won the American Association of Publishers PROSE Award for Excellence in Physical Sciences & Mathematics as well as the organization's Award for Engineering & Technology. The second edition of the handbook, edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors, continues to be an authoritative reference for robotics researchers, newcomers to the field, and scholars from related disciplines. The contents have been restructured to achieve four main objectives: the enlargement of foundational topics for robotics, the enlightenment of design of various types of robotic systems, the extension of the treatment on robots moving in the environment, and the enrichment of advanced robotics applications. Further to an extensive update, fifteen new chapters have been introduced on emerging topics, and a new generation of authors have joined the handbook's team. A novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos, which bring valuable insight into the contents. The videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app. Springer Handbook of Robotics Multimedia Extension Portal: <http://handbookofrobotics.org/>

Creep and Fatigue in Polymer Matrix Composites Rui Miranda Guedes.2019-03-14 Creep and Fatigue in Polymer Matrix Composites, Second Edition, updates the latest research in modeling and predicting creep and fatigue in polymer matrix composites. The first part of the book reviews the modeling of viscoelastic and viscoplastic behavior as a way of predicting performance and service life. Final sections discuss techniques for modeling creep rupture and failure and how to test and predict long-term creep and fatigue in polymer matrix composites. Reviews the latest research in modeling and predicting creep and fatigue in polymer matrix composites Puts a specific focus on viscoelastic and viscoplastic modeling Features the time-temperature-age superposition principle for predicting long-term response Examines the creep rupture and damage interaction, with a particular focus on time-dependent failure criteria for the lifetime prediction of polymer matrix composite structures that are illustrated using experimental cases

Renewable Energy Technologies for Water Desalination Hacene Mahmoudi, Noredine Ghaffour, Mattheus F.A. Goosen, Jochen Bundschuh.2017-07-14 The book presents a thorough overview of the latest trends and challenges in renewable energy technologies applications for water desalination, with an emphasis on environmental concerns and sustainable development. Emphasis is on the various uses of renewable energy, as well as economics & scale-up, government subsidies & regulations, and environmental concerns. It provides an indication on how renewable energy technologies are rapidly emerging with the promise of economic and environmental viability for desalination. Further it gives a clear indication on how exactly to accelerate the expansion and commercialization of novel water production systems powered by renewable energies and in what manner environmental concerns may be minimized. This book is all-inclusive and wide-ranging and directed at decision makers in government, industry and the academic world as well as students.

Contaminants of Emerging Concerns and Reigning Removal Technologies Manish Kumar, Sanjeeb Mohapatra, Kishor Acharya.2022-06-30 With an increased demand for wastewater reuse, groundwater recharge with treated wastewater has been practiced across the globe. As a result, groundwater quality deteriorates by emerging micropollutants from various anthropogenic origins, including untreated wastewater, seepage of landfill leachate, and runoff from agricultural lands. The fate of such emerging and geogenic contaminants in subsurface systems, especially in the groundwater, depends on several factors. Physicochemical properties of contaminants such as octanol-water partition coefficient, dissociation constant, water solubility, susceptibility to biodegradation under anaerobic conditions, and environmental persistence under diverse geological and pH conditions play a critical role during subsurface mass flow. Thus, advanced wastewater treatment techniques, followed by implementing stricter guidelines, are some of the measures that can safeguard water resources. This book, in general, gives an understanding of the fate and mitigation strategies for emerging and geogenic contaminants in the groundwater. The first and second sections provide a detailed insight into various removal techniques and mitigation approaches. Possible treatment strategies, including bioremediation and natural attenuation, are also covered in those sections. Environmental assessment, groundwater vulnerability, health effects, and regulations pertaining to various contaminants are systematically presented in the third section.

Green ICT & Energy Jaco H. Appelman, Anwar Osseyran, Martijn Warnier.2013-12-16 This book provides the connection between the growing body of literature on sustainability and the topics of energy and ICT. It aims to show how stakeholders active in this area need to play their part ensuring that the ICT-sector evolves towards a sector that can lead through "greening by IT" and also shows that it can "green its own IT" as well. This is the first book that integrates two seemingly incompatible approaches to sustainability: efficiency and effectiveness. The book builds on the efficiency initiatives already taken by industry, but it is not a "how-to-do-it manual". It offers insight in state of the art approaches to green IT and greening by IT. Attention to important stakeholders outside the sector, e.g. policy makers and the field of education, makes this book comprehensive. A more encompassing view on ICT and sustainability is offered to the reader and, as such, managers in higher education, educators, CIO's, policymakers and regulators are inspired to integrate their efforts and to contribute to a transition of one of the most important and prominent sectors in our global economy.

Natural Fiber Composites R.D.S.G. Campilho.2015-11-05 Safely Design, Test, and Construct Products Made of Natural Fiber Composites Natural fibers and their composites carry distinct advantages over industrial fibers. Some advantages-including renewability and availability of raw materials, and lower energy consumption-could help safeguard environmental resources and eventually replace synthetic composites

Tubular String Characterization in High Temperature High Pressure Oil and Gas Wells Jiuping Xu, Zezhong Wu.2018-10-30 High temperature, high oil pressure, oil and gas well completion testing have always been a technical challenge and basic theoretical research is one of the key factors needed to ensure a successful completion test. The completion test basic theory includes: a stress analysis of the completion string, completion string buckling behavior, and temperature and pressure distribution prediction. The completion string is the main bearing and power transmission component for oil and gas well operations and production, and it is required to take on a combination of loads, which result in completion string deformation. Because of these complex relationships, completion string stress analysis has become increasingly more complicated. This book discusses the characters of tubular strings in HTHP (High Temperature - High Pressure) oil and gas wells. These characters include the mechanical behavior of tubular strings and the temperature and pressure variation of tubular strings in different conditions. Mathematical models are established for different conditions and solution existence and uniqueness of some models is discussed, providing algorithms corresponding to the different models. Numerical experiments are presented to verify the validity of models and the feasibility of algorithms, and the impact of the parameters of models for oil and gas wells is also discussed. This book is written for production and testing engineers to provide them with the tools to deal more effectively with the numerical decisions they have to take and for researchers and technicians in petroleum and gas testing and production engineering. Finally, it is also intended to serve as a reference book for mathematicians, college teachers and students.

Low Energy Low Carbon Architecture Khaled Al-Sallal.2016-05-05 Providing a complete and in-depth overview of the available knowledge in the area of low energy and low carbon architecture. The scope of this edited book includes several important topics ranging from chapters giving a broad view of the progressing models in ecologically responsible environments to other chapters focussing on recent advances in de

Signal and Image Analysis for Biomedical and Life Sciences Changming Sun, Tomasz Bednarz, Tuan D. Pham, Pascal Vallotton, Dadong Wang.2014-11-07 With an emphasis on applications of computational models for solving modern challenging problems in biomedical and life sciences, this book aims to bring collections of articles from biologists, medical/biomedical and health science researchers together with computational scientists to focus on problems at the frontier of biomedical and life sciences. The goals of this book are to build interactions of scientists across several disciplines and to help industrial users apply advanced computational techniques for solving practical biomedical and life science problems. This book is for users in the fields of biomedical and life sciences who wish to keep abreast with the latest techniques in signal and image analysis. The book presents a detailed description to each of the applications. It can be used by those both at graduate and specialist levels.

Engineering Your Future: An Australasian Guide, 4th Edition David Dowling, Roger Hadgraft, Anna Carew, Tim McCarthy, Doug Hargreaves, Caroline Baillie, Sally Male. 2020-01-21 Dowling's *Engineering Your Future: An Australasian Guide, Fourth Edition* is used for first year, core subjects across all Engineering disciplines. Building on the previous editions, this text has been updated with new references, while still maintaining a strong and practical emphasis on skills that are essential for problem solving and design. Numerous topical and locally focused examples of projects across engineering disciplines help demonstrate the role and responsibilities of a professional engineer. Themes of sustainability, ethical practice and effective communication are a constant throughout the text. This full-coloured print with interactive e-text resource has a variety of digital media embedded at the point of learning such as videos and knowledge-check questions to engage students and to help consolidate their learning.

Legacy, Pathogenic and Emerging Contaminants in the Environment Manish Kumar, Meththika Vithanage, Sanjeeb Mohapatra, Kishor Acharya. 2021-12-31 This is the time when legacy, pathogenic, and emerging contaminants must be talked about, understood, and dealt with together. While the geogenic contamination of the groundwater is a well-established phenomenon that is considered as legacy contaminants that risk people's health globally, both pathogenic and emerging contaminants like various water-borne pathogens and pharmaceutical personal care products (PPCPs) are becoming imperative for their acute and chronic toxic effects. While contaminated groundwater consumption leads to skin pigmentation, hyperkeratosis, kidney damage, cardiovascular disease, and children's overall development, poor sanitation-related pathogenic microorganisms cause a significant number of child and prenatal deaths. Simultaneously, antibiotic microbial resistance (AMR) is expected to kill 100 million people by 2050. However, there are rare texts that combine aspects of all these three under a single book cover. This book gives an understanding of the occurrence, fate, and transport of geogenic, microbial, and anthropogenic contaminants in the groundwater. It covers not only the scientific and technical aspects but also environmental, legal, and policy aspects for contaminant management in the environment under the paradigm shift of COVID-19. This book is intended to bring the focus on the natural contaminants—biotic or abiotic—in the post-COVID Anthropocene, which is illustrating a significant alteration of systems and the subsequent downstream impacts owing to globalization. This book has compiled global work on emergence, mass flow, partitioning, and activation of geogenic, emerging, and pathogenic contaminants in various spheres of environment with special emphasis on soil, sediment, and aquatic systems for enhancing the understanding on their migration and evolution for the welfare of mankind.

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