

University Of Southern Queensland Faculty Of Engineering

Recognizing the way ways to acquire this ebook **University Of Southern Queensland Faculty Of Engineering** is additionally useful. You have remained in right site to begin getting this info. acquire the University Of Southern Queensland Faculty Of Engineering belong to that we have enough money here and check out the link.

You could buy guide University Of Southern Queensland Faculty Of Engineering or acquire it as soon as feasible. You could speedily download this University Of Southern Queensland Faculty Of Engineering after getting deal. So, following you require the books swiftly, you can straight acquire it. Its as a result unconditionally easy and for that reason fats, isnt it? You have to favor to in this flavor

University Of Southern Queensland Faculty Of Engineering

2023-08-01

BOONE HINTON

Beyond Binaries in Education Research Routledge

Predictive Modeling for Energy Management and Power Systems Engineering introduces readers to the cutting-edge use of big data and large computational infrastructures in energy demand estimation and power management systems. The book supports engineers and scientists who seek to become familiar with advanced optimization techniques for power systems designs, optimization techniques and algorithms for consumer power management, and potential applications of machine learning and artificial intelligence in this field. The book provides modeling theory in an easy-to-read format, verified with on-site models and case studies for specific geographic regions and complex consumer markets. Presents advanced optimization techniques to improve existing energy demand system Provides data-analytic models and their practical relevance in proven case studies Explores novel developments in machine-learning and artificial intelligence applied in energy management Provides modeling theory in an easy-to-read format

Metaphors for, in and of Education Research Springer

This book focuses on the relationship between the university and a particular cohort of academic staff: those in visual and performing arts disciplines who joined the university sector in the 1990s. It explores how artistic researchers have been accommodated in the Australian university management framework and the impact that this has had on their careers, identities, approaches to their practice and the final works that they produce. The book provides the first analysis of this topic across the artistic disciplinary domain in Australia and updates the findings of Australia's only comprehensive study of the position of research in the creative arts within the government funding policy setting reported in 1998 (The Strand Report). Using lived examples and a forensic approach to the research policy challenges, it shows that while limited progress has been made in the acceptance of artistic research as legitimate research, significant structural, cultural and practical challenges continue to undermine relationships between universities and their artistic staff and affect the nature and quality of artistic work.

Positioning Artistic Research in Higher Education CRC Press

Kalwant Bhopal and Patrick Danaher examine 'race', identity and gender within education and explore the difficulties of relating these concepts to the experience of students in higher education. In drawing together the experience of local and international students in the UK and in Australia, they examine the ways identities are understood and conceptualized within higher education in local contexts and on a global level. They consider the complexity of 'race', gender and identity in relation to education within the context that education continues to be dominated by predominantly white, middle class values and perspectives. Identity and Pedagogy in Higher Education examines the extent to which education as a vehicle for change in the light of the controversial debates surrounding race and gender inequalities.

Building Capabilities through Learning and Engagement Open Book Publishers

This book examines quality teaching in professional education in the fields of engineering and international knowledge structures. The second of a two-volume series, the editors and contributors structure the book around case studies which highlight the elements constituting good practice within professional education. While there is no one specific route to prepare well-qualified professionals, this volume explores the decisions the academics responsible for delivering this education make to ensure quality curricula. Ultimately, the key to effective preparations rests with the value employers place on the focus, emphasis and balance between the academic and practical in relation to their own expectations for skills that graduates must have. The second volume in this collection will appeal to students and scholars of professional pedagogy, and engineering pedagogy more specifically.

International Comparisons IGI Global

"This book includes the challenges and practical experience of the design of M-Learning environments, covering current developments in M-learning experiences in both academia and industry"--Provided by publisher.

Cases on Online and Blended Learning Technologies in Higher Education: Concepts and Practices CRC Press

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.

Promise and Performance of Labor in Queensland CRC Press

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.

Solutions for Arsenic and Chromium Removal Springer

A split-page collaborative book about the head.

International University Education CRC Press

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

Ensuring Quality in Professional Education Volume II Springer

Beyond Binaries in Education Research explores the ethical, methodological, and social justice issues relating to conceptualizations of binary opposites in education research, particularly where one side of the dualism is perceived to be positive and the other negative. In education research these may include ability-disability, academic-vocational, adult-child, formal-informal learning, male-female, research-practice, researcher-participant, sedentary-mobile, and West-East. Chapters in this book explore the resilience of binary constructions and present conceptual models for moving beyond them and/or reconceptualizing them to facilitate more productive approaches to education provision. With contributors from authors working in a multitude of educational fields and countries, this book provides a significant contribution to the ongoing challenge to seek new ways to move beyond binaries in education research.

Innovative Mobile Learning: Techniques and Technologies CRC Press

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

Sustainable Energy Solutions in Agriculture Cambridge Scholars Publishing

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.

Advances in Agricultural Machinery and Technologies Elsevier

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

Concepts and Practices CRC Press

Robbins: Leading the way in OB Organisational Behaviour shows managers how to apply the concepts and practices of modern organisational behaviour in a competitive, dynamic business world. Written and researched by industry-respected authors, this continues to be Australia's most popular text for introductory courses in organisational behaviour. A new suite of learning and teaching resources that will excite future managers and inspire critical thinking, accompanies the text.

A Comparison of Major Source Countries and Major Destination Countries Taylor & Francis US

This insightful collection of essays explores the ways in which open education can democratise access to education for all. It is a rich resource that offers both research and case studies to relate the application of open technologies and approaches in education settings around the world. A must-read for practitioners, policy-makers, scholars and students in the field of education.

International Perspectives in Higher Education IGI Global

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.

Mathematical and Numerical Modeling in Porous Media CRC Press

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.

Mobile Learning in Higher Education in the Asia-Pacific Region Pearson Higher Education AU

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.

The Marketing Relationships Trilogy IGI Global

Spelling ImageA Collaborative Work Produced by Graduating Students and Invited Staff of the University of Southern Queensland Faculty of Arts, Visual Arts

Geothermal Water Management A&C Black

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.