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Electrochemical Capacitors Elsevier

This volume contains selects papers presented during the 2nd International Conference on Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering, held in the University of Illinois at Chicago. It covers the recent innovations, trends, and concerns, practical challenges encountered, and the solutions adopted in waste management and engineering, geotechnical and geoenvironmental engineering, infrastructure engineering, and sustainable engineering. This book will be useful for academics, educators, policy makers and professionals working in the field of civil engineering, chemical engineering, environmental sciences and public policy.

Fractional Order Processes Peterson's

Electrochemical capacitors are most important for the development of future energy storage systems and sustainable power sources. New superior hybrid supercapacitors are based on binary and ternary thin film nanocomposites involving carbon, metal oxides and polymeric materials. The synthesis of materials and fabrication of electrodes for supercapacitor applications is discussed in detail. The book also presents the fundamental theory and a thorough literature review of supercapacitors. Energy Storage, Electrochemical Capacitors, Nanocomposites, Hybrid Supercapacitors, Carbon/Metal Oxide Composites, Metal Oxides/Hydroxides Composites, Polymer Type Capacitors, Nanoscience, Hydrothermal Synthesis, Graphene-based Composites, Ultrasonic Assisted Synthesis

Disposition of Surplus Highly Enriched Uranium [TN,SC,VA] John Wiley & Sons

"This book provides various approaches to computational gas-solids flow and will aid the researchers, graduate students and practicing engineers in this rapidly expanding area"--Provided by publisher.

Peterson's Graduate Programs in Engineering & Applied Sciences 2012

Peterson's

Peterson's Graduate Programs in Engineering & Applied Sciences contains a wealth of information on colleges and universities that offer graduate degrees in the fields of Aerospace/Aeronautical Engineering; Agricultural Engineering & Bioengineering; Architectural Engineering, Biomedical Engineering & Biotechnology; Chemical Engineering; Civil & Environmental Engineering; Computer Science & Information Technology; Electrical & Computer Engineering; Energy & Power engineering; Engineering Design; Engineering Physics; Geological, Mineral/Mining, and Petroleum Engineering; Industrial Engineering; Management of Engineering & Technology; Materials Sciences & Engineering; Mechanical Engineering & Mechanics; Ocean Engineering; Paper & Textile Engineering; and Telecommunications. Up-to-date data, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. As an added bonus, readers will find a helpful "See Close-Up" link to in-depth program descriptions written by some of these institutions. These Close-Ups offer detailed information about the specific program or department, faculty members and their research, and links to the program Web site. In addition, there are valuable articles on financial assistance and support

at the graduate level and the graduate admissions process, with special advice for international and minority students. Another article discusses important facts about accreditation and provides a current list of accrediting agencies.

Advanced Electrocatalysts for Low-Temperature Fuel Cells Infokerala Communications Pvt Ltd

Peterson's Graduate Programs in Engineering & Applied Sciences 2012 contains a wealth of information on accredited institutions offering graduate degree programs in these fields. Up-to-date data, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, requirements, expenses, financial support, faculty research, and unit head and application contact information. There are helpful links to in-depth descriptions about a specific graduate program or department, faculty members and their research, and more. There are also valuable articles on financial assistance, the graduate admissions process, advice for international and minority students, and facts about accreditation, with a current list of accrediting agencies.

Advanced Bioscience and Biosystems for Detection and Management of Diabetes Springer Nature

This book highlights advances in sustainable wastewater treatment technologies, particularly biological wastewater treatment, cavitation-based treatment, hybrid water treatment, membrane technologies, advance oxidation processes, and adsorption. The book focuses on a variety of advanced treatment techniques that are useful for the degradation of organic components, dyes, heavy metals effluent, etc. in wastewater. Industrial wastewater consists of variety of discharges based on the type of industry, such as the dairy/food industries, which generate more fats and high BOD value with variation in the pH value, while the electroplating industry may expel more inorganic matter and dissolved solids. The oil extraction industries will have more solvents contained in the effluent, and dyes and textiles industry create a higher organic load with high TDS. Hence, every type of manufacturing industry needs a different method for the treatment of its effluents. Looking at the use of intensified chemical processes in order to make cleaner environment, Innovative Technologies for the Treatment of Industrial Wastewater explores the new and innovative methods for pollutant removal that will prove useful for a variety of industries. Conventional wastewater treatment processes require a significant amount of energy and involve expensive equipment and maintenance. Sustainable wastewater treatment technologies, however, involve less generation of energy and employ more economically feasible treatment methods, requiring less equipment and fewer maintenance costs. Looking at the use of intensified chemical processes in order to make a cleaner environment, this volume explores new and innovative methods for pollutant removal that will prove useful for a variety of industries.

This book highlights advances in sustainable wastewater treatment technologies, particularly biological wastewater treatment, cavitation-based treatment, hybrid water treatment, membrane technologies, advanced oxidation processes, and adsorption.

Advanced Computational Techniques for Heat and Mass Transfer in Food Processing Elsevier
Nanotechnology in Water and Waste Water Treatment: Theory and Applications explores the unique physicochemical and surface properties of nanoparticles and highlights the advantages they provide for engineering applications. Applications covered include the generation of fresh water from surface water and seawater, the prevention of the contamination of the environment, and the creation of effective and efficient methods for remediation of polluted waters. Each chapter covers a different nanotechnology-based approach and examines the basic principles, practical applications, recent breakthroughs and associated limitations. This book is ideal for researchers and professionals in the fields of nanotechnology, water treatment and desalination. In addition, it is also ideal for postgraduate students, industry and government professionals, managers and policymakers. Gathers together the latest research and developments in the field from journal articles and conference proceedings Discusses and evaluates the most economical and low cost treatment technologies Presents information from related fields on the applicability, strengths and weaknesses of particular nanomaterials in key applications, thus allowing for the

continuation and expansion of research in a range of fields

Choose Your Career Infokerala Communications Pvt Ltd

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

Journal of the Institution of Engineers (India) CRC Press

This book introduces the reader to the state of the art in nanostructured anode and cathode electrocatalysts for low-temperature acid and alkaline fuel cells. It explores the electrocatalysis of anode (oxidation of organic molecules) and cathode (oxygen reduction) reactions. It also offers insights into metal-carbon interactions, correlating them with the catalytic activity of the electrochemical reactions. The book explores the electrocatalytic behaviour of materials based on noble metals and their alloys, as well as metal-metal oxides and metal-free nanostructures. It also discusses the surface and structural modification of carbon supports to enhance the catalytic activity of electrocatalysts for fuel-cell reactions. Campus Plus 2013 KHANNA PUBLISHING HOUSE

This book presents select peer-reviewed proceedings of the International Conference on Sustainable Development in Energy and Environment (ICSDEE) 2019. The focus is on novel research in renewable energy resources and environmental issues and their implementation in augmenting sustainable development. This book includes chapters on solutions to problems faced by countries across the globe in the energy sector, pollution treatment processes, and other socially relevant topics like the possibility of extracting energy from the inexhaustible waste stream, waste disposal, waste management etc. This book will be useful for students, researchers as well as professionals interested in sustainable technologies, green energy, and biotechnology. Graduate Programs in Engineering & Applied Sciences 2015 (Grad 5) Innovative Technologies for the Treatment of Industrial Wastewater

Bioremediation and Sustainability is an up-to-date and comprehensive treatment of research and applications for some of the most important low-cost, "green," emerging technologies in chemical and environmental engineering.

Sustainable Environment and Infrastructure Allied Publishers

The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable.

Handbook of Universities Infokerala Communications Pvt Ltd

India, bounded by the majestic Himalayan ranges in the North and edged by an endless stretch of golden beaches, is the land of hoary tradition and culturally diverse. The vivid kaleidoscope of landscapes, glorious historical sites and royal cities, misty mountain hideaways, colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially the higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala 's surge in the educational front is to be viewed in the backdrop of the country 's great legacy in education.

India has been a major seat of learning for thousands of years. The country was home to Takshashila, the first university in the world and Aryabhata, the inventor of the digit Zero. In fact, education in Kerala has now become more value-added and affordable, thanks to the pro-active initiatives of the State Government and active involvement of the private sector. Moreover, in the higher education market, Kerala has a significant edge in respect of cost which means that there would be growing influx of candidates into the state from outside the state for better and affordable professional education in the days to come. With the most sought-after professionals and the excellent network of institutes, Kerala is becoming the very preferred educational destination in the world. And, we are equipped for you with some elucidations which step-up her significance in the educational map. In Campus Plus, we propose some valuable information along with a number of educational institutes in the State which will be useful for the students and parents in the higher education scenario.

Campus Plus 2019 Peterson's

Food process engineering, a branch of both food science and chemical engineering, has evolved over the years since its inception and still is a rapidly changing discipline. While traditionally the main objective of food process engineering was preservation and stabilization, the focus today has shifted to enhance health aspects, flavour and taste, nutrition, sustainable production, food security and also to ensure more diversity for the increasing demand of consumers. The food industry is becoming increasingly competitive and dynamic, and strives to develop high quality, freshly prepared food products. To achieve this objective, food manufacturers are today presented with a growing array of new technologies that have the potential to improve, or replace, conventional processing technologies, to deliver higher quality and better consumer targeted food products, which meet many, if not all, of the demands of the modern consumer. These new, or innovative, technologies are in various stages of development, including some still at the R&D stage, and others that have been commercialised as alternatives to conventional processing technologies. Food process engineering comprises a series of unit operations traditionally applied in the food industry. One major component of these operations relates to the application of heat, directly or indirectly, to provide foods free from pathogenic microorganisms, but also to enhance or intensify other processes, such as extraction, separation or modification of components. The last three decades have also witnessed the advent and adaptation of several operations, processes, and techniques aimed at producing high quality foods, with minimum alteration of sensory and nutritive properties. Some of these innovative technologies have significantly reduced the thermal component in food processing, offering alternative nonthermal methods. Food Processing Technologies: A Comprehensive Review covers the latest advances in innovative and nonthermal processing, such as high pressure, pulsed electric fields, radiofrequency, high intensity pulsed light, ultrasound, irradiation and new hurdle technology. Each section will have an introductory article covering the basic principles and applications of each technology, and in-depth articles covering the currently available equipment (and/or the current state of development), food quality and safety, application to various sectors, food laws and regulations, consumer acceptance, advancements and future scope. It will also contain case studies and examples to illustrate state-of-the-art applications. Each section will serve as an excellent reference to food industry professionals involved in the processing of a wide range of food categories, e.g., meat, seafood, beverage, dairy, eggs, fruits and vegetable products, spices, herbs among others.

Handbook of Universities Peterson's

Peterson's Graduate Programs in Engineering & Applied Sciences 2015 contains comprehensive profiles of more than 3,850 graduate programs in all relevant disciplines-including aerospace/aeronautical engineering, agricultural engineering & bioengineering, chemical engineering, civil and environmental engineering, computer science and information technology, electrical and computer engineering, industrial engineering, telecommunications, and more. Two-page in-depth descriptions, written by featured institutions, offer complete details on a specific graduate program, school, or department as well as information on faculty research. Comprehensive directories list programs in this volume, as well as others in the Peterson's graduate series.

Peterson's Graduate Programs in Engineering & Applied Sciences, Aerospace/Aeronautical Engineering, Agricultural Engineering & Bioengineering, and Architectural Engineering 2011 Springer Science & Business Media

India, bounded by the majestic Himalayan ranges in the North and edged by an endless stretch of golden beaches, is the land of hoary tradition and cultural diverse. Vivid kaleidoscope of landscapes, glorious historical sites and royal cities, misty mountain hideaways, colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially the higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala 's surge in the educational front is to be viewed in the backdrop of the country 's great legacy in education. India has been a major seat of learning for thousands of years. The country was home to Takshashila, the first university in the world and Aryabhata, the inventor of the digit Zero. In fact, education in Kerala has now become more value added and affordable, thanks to the pro-active initiatives of the State Government and active involvement of the private sector. Moreover, in the higher education market, Kerala has a significant edge in respect of cost which means that there would be growing influx of candidates into the state from outside the state for better and affordable professional education in the days to come. With the most sought after professionals and excellent network of institutes Kerala is becoming the very preferred educational destination in the world. And, we are equipped for you with some elucidations which step-up her significance in the educational map. In Campus Plus, we propose some valuable information along with a

number of educational institutes in the State which will be useful for the students and parents in the higher education scenario.

Campus Plus 2022 CRC Press

In a rapidly growing global economy, where there is a constant emergence of new business models and dynamic changes to the business ecosystem, there is a need for the integration of traditional, new, and hybrid concepts in the complex structure of supply chain management. Within the fast-paced pharmaceutical industry, product strategy, life cycles, and distribution must maintain the highest level of agility. Therefore, organizations need strong supply chain capabilities to profitably compete in the marketplace. Global Supply Chains in the Pharmaceutical Industry provides innovative insights into the efforts needed to build and maintain a strong supply chain network in order to achieve efficient fulfillment of demand, drive outstanding customer value, enhance organizational responsiveness, and build network resiliency. This publication is designed for supply chain managers, policymakers, researchers, academicians, and students, and covers topics centered on economic cycles, sustainable development, and new forces in the global economy.

Sustainable Environmental Geotechnics Diamond Pocket Books Pvt Ltd

In this book, an attempt has been made by the author to present numerous important questions with answers which have been methodically prepared/selected from different text books, manuals of petroleum industries, SPE technical papers and teaching materials of distinguished persons. These questions are very relevant for promoting fundamental understanding of petroleum engineering and will be primarily useful for fresh graduates of petroleum engineering who can prepare themselves soundly for both written as well as oral examinations. The hints and solutions of most important questions are included in this book.

Campus Plus 2015 Peterson's

The aim of this text is to provide a comprehensive set of calculations relating to mass and energy balances for an entire process plant. An ammonia synthesis plant will be taken as a calculation model to develop the relevant mass and energy balances necessary for the design and subsequent production, as the production of ammonia synthesis gas is an internationally used process. Instead of teaching the basics of mass and energy balances, the text aims to give a detailed series of process integrated and illustrated calculations to help readers develop and design a process plant. • Details complete mass and energy calculations related to a manufacturing plant and includes stepwise procedures for mass and energy balances • Demonstrates how the series of integrated calculations will lead to the production of a specified amount of final product • Features "teaching" appendices that lay out applications of prior-assumed knowledge, which can be used in conjunction with the main text where more detailed explanation may be needed • Contains problems linked to various manufacturing sections covered in the text to help readers consolidate their knowledge This book will serve undergraduate Chemical Engineering students as a teaching aid in capstone design and related courses and gives useful insights to advanced students, researchers, and industry personnel within the Chemical Engineering field.

Graduate & Professional Programs: An Overview 2015 (Grad 1) Biju Mathew | Info Kerala

India, bounded by the majestic Himalayan ranges in the North and edged by an endless stretch of golden beaches, is the land of hoary tradition and cultural diverse. Vivid kaleidoscope of landscapes, glorious historical sites and royal cities, misty mountain hideaways, colourful people, rich civilizations and festivities craft India Incredible. Recent years have witnessed the educational scene, especially the higher education sector in the State undergoing a sea change in respect of quality, diversity and accessibility in tune with the global trends. Kerala 's surge in the educational front is to be viewed in the backdrop of the country 's great legacy in education.

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