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AUGUSTUS SINGH

Engineering Education IGI Global
 The service industry is continually improving, forcing service-oriented engineering to improve alongside it. In a digitalized world, technology within the service industry has adapted to support interactions between users and organizations. By identifying key problems and features, service providers can help increase facilitator profitability and user satisfaction. *Multidisciplinary Approaches to Service-Oriented Engineering* is a well-rounded collection of research that

examines methods of providing optimal system design for service systems and applications engineering. While exploring topics such as cloud ecosystems, interface localization, and requirement prioritization, this publication provides information about the approaches and development of software architectures to improve service quality. This book is a vital resource for engineers, theoreticians, educators, developers, IT consultants, researchers, practitioners, and professionals.
Analytical Chemistry Editor's Pick 2021 IGI Global
 p="" This highly informative and carefully presented book focuses on the fields of

ergonomics/human factors and discusses the future of the community vis-à-vis health problems, productivity, aging, etc. Ergonomic intercession must be seen in light of its effect on productivity because ergonomic solutions will improve productivity as the reduction of environmental stressors, awkward postures and efforts lead to a reduction in task execution time. The book provides promising evidence that the field of ergonomics continues to thrive and develop deeper insights into how work environments, products and systems can be developed to meet needs, demands and limitations of humans and how they can support productivity improvements.

Some of the themes covered are anthropometry and workplace design, biomechanics and modelling in ergonomics, cognitive and environmental ergonomics, ergonomic intervention and productivity, ergonomics in transport, mining, agriculture and forestry, health systems, work physiology and sports ergonomics, etc. This book is beneficial to academicians, policymakers and the industry alike. ^

AI and Its Convergence With Communication Technologies Voyageur Press

Modern Computational Techniques for Engineering Applications presents recent computational techniques used in the advancement of modern grids with the integration of non-conventional energy sources like wind and solar energy. It covers data analytics tools for smart cities, smart towns, and smart computing for sustainable development. This book- Discusses the importance of renewable energy source applications wind turbines and solar panels for electrical grids. Presents optimization-based computing techniques like fuzzy logic, neural networks, and genetic algorithms that enhance the computational speed. Showcases cloud computing tools and methodologies such as cybersecurity testbeds and data security for better accuracy of data. Covers novel concepts on artificial neural networks, fuzzy systems, machine learning, and artificial intelligence techniques. Highlights application-based case studies including cloud computing, optimization methods, and the Industrial Internet of Things. The book comprehensively introduces modern computational techniques, starting from basic tools to highly advanced procedures, and their applications. It further highlights artificial neural networks, fuzzy systems, machine learning, and artificial intelligence techniques and how they form the basis for algorithms. It presents application-based case studies on cloud computing, optimization methods, blockchain technology, fog and edge computing, and the Industrial Internet of Things. It will be a valuable resource for senior undergraduates, graduate students, and academic researchers in diverse fields, including electrical engineering, electronics and communications engineering, and computer engineering. *Modern Computational Techniques for Engineering Applications* CRC Press

While chemical products are useful in their own right-they address the demands and needs of the masses-they also drain our natural resources and generate unwanted pollution. *Green Chemical Engineering: An*

Introduction to Catalysis, Kinetics, and Chemical Processes encourages minimized use of non-renewable natural resources and fosters maximized pol

The Journal of Engineering Education CRC Press

Wireless sensor networks have become an intricate and necessary addition to daily life by providing an energy efficient way to collect and monitor data while rerouting the information to a centralized location. As the application of these networks becomes more common, it becomes imperative to evaluate their effectiveness, as well as other opportunities for possible implementation in the future. The Handbook of Research on Wireless Sensor Network Trends, Technologies, and Applications provides inclusive coverage on the processing and applications of wireless communication, sensor networks, and mobile computing. Investigating emergent research and theoretical concepts in the area of wireless sensors and their applications to daily life, this handbook of research is a critical reference source for students, researchers, engineers, scientists, and working professionals.

College of Engineering CRC Press

FIDIC contracts are the most widely used contracts for international construction around the world and are used in many different jurisdictions, both common law and civil law. For any construction project, the General Conditions of Contract published by FIDIC need to be supplemented by Particular Conditions that specify the specific requirements of that project subject to the relevant laws. *FIDIC Contracts in Asia Pacific* provides readers with detailed guidance and resources for the preparation of the Particular Conditions that will comply with the requirements of the applicable laws for a number of the jurisdictions in which FIDIC contracts are used. The laws that apply to the governing law of the contract, construction works and dispute resolution in each jurisdiction are identified. This book offers chapters on the FIDIC Conditions of Contract for Underground Works, and the perspective of a bilateral aid agency on the use of FIDIC contracts. Each jurisdiction features an outline of its construction industry and information on the impact of Covid-19 on both the execution of construction projects and the operation of construction contracts. This book is essential reading for construction professionals, lawyers and students of construction law using FIDIC contracts.

FIDIC Contracts in Asia Pacific UM Libraries

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.

Pragmatism and Organization Studies IGI Global

This book discusses the concept and practice of a smart metropolitan region, and how smart cities promote healthy economic and spatial development. It highlights how smart metropolitan regional development can energize, reorganize and transform the legacy economy into a smart economy; how it can help embrace Information and Communications Technology (ICT); and how it can foster a shared economy. In addition, it outlines how the five pillars of the third industrial revolution can be achieved by smart communities. In addition, the book draws on 16 in-depth city case studies from ten countries to explore the state of the art regarding the smart economy in smart cities - and to apply the lessons learned to shape smart metropolitan economic and spatial development.

Multidisciplinary Approaches to Service-Oriented Engineering Oxford University Press

At head of title: Airport Cooperative Research Program.

Engineering Education John Wiley & Sons

The book reveals how green buildings are currently being adapted and applied in developing countries. It includes the major developing countries such as China, Indonesia, Malaysia, Thailand, Pakistan, Cambodia, Ghana, Nigeria and countries from the Middle East and gathers the insights of respected green building researchers from these areas to map out the developing world's green building revolution. The book highlights these countries' contribution to tackling climate change, emphasising the green building benefits and the research behind them. The contributing authors explore how the

green building revolution has spread to developing countries and how national governments have initiated their own green building policies and agendas. They also explore how the market has echoed the green building policy, and how a business case for green buildings has been established. In turn, they show how an international set of green building standards, in the form of various techniques and tools, has been incorporated into local building and construction practices. In closing, they demonstrate how the developing world is emerging as a key player for addressing the energy and environmental problems currently facing the world. The book helps developers, designers and policy-makers in governments and green building stakeholders to make better decisions on the basis of global and local conditions. It is also of interest to engineers, designers, facility managers and researchers, as it provides a holistic picture of how the industry is responding to the worldwide call for greener and more sustainable buildings.

Solar Thermal Energy Storage System using phase change material for uninterrupted on-farm agricultural processing and value addition IGI Global

The integration of Artificial Intelligence (AI) with Communication Technologies (ICT) is a critical aspect of research and development today, but it poses numerous challenges and bottlenecks. To address these issues, the book *AI and Its Convergence with Communication Technologies*, edited by a team of expert scholars, provides a comprehensive overview of the state-of-the-art research and practical challenges related to AI's convergence with ICT. It is designed to benefit engineers, professionals, scientists, and academicians, providing them with insights into the ICT industry and research from an AI perspective. The book covers a wide range of topics, including recent advancements and applications in AI, AI in signal processing, AI in mobile and modern wireless networks, and AI towards automation. It also addresses potential applications of AI in national defense, military technology, hybrid warfare, medical and health sciences, and energy-efficient systems. Furthermore, the book highlights the strengths and weaknesses of AI convergence with ICT, along with emerging frontiers and recommendations. It provides a brief history of AI in ICT and a comprehensive introduction to ICT-related methods and techniques in artificial intelligence and machine learning. The

book emphasizes the role of AI in extracting knowledge and making predictions in decision-making strategies for businesses, management, and governance. Overall, this book offers a significant contribution to the understanding of AI and its convergence with communication technologies, making it a must-read for scholars and researchers who seek to understand the intersection of AI and ICT and how it impacts modern industries and research.

Environmental Regulations and Technology Frontiers Media SA

Many streams of research in organization and management have criticized the mainstream view of organizations as decision-making and information-processing structures, controlled through rational representations (substantive or procedural rationality). In spite of their differences, these streams of research share some key theoretical principles: Their processual view of organizing as 'becoming', their emphasis on the key role of action and action meaning; their interest in the agential power of artefacts and objects; the exploratory and inquiring nature of organizing. This book argues that Pragmatist thought can contribute to those approaches offering some theoretical argument, both as a general intellectual orientation and as a conceptual toolbox. As a general attitude, Pragmatism develops a radical critique of all the dualisms which often hinder organization studies: Thought and action, design and utilization, decision and execution, reality and representation, to name a few. As a conceptual toolbox, Pragmatism can contribute and clarify key concepts for organization and management studies, such as inquiry, semiotic mediation, habit, abduction, trans-action, and valuation. However, Pragmatist thought is still little known by organization and management scholars and by reflexive managers. The proposed book aims at making pragmatist key notions accessible to them and applicable to theorize organizations and transform managerial practices.

Proceedings of the ... Annual Meeting Taylor & Francis

New information and strategies for managing the energy crisis from the perspective of growing economies are presented. Numerous case studies illustrate the particular challenges that developing countries, many of which are faced with insufficient resources, encounter. As a result, many unique strategies to the problems of energy management and conservation, environmental engineering, clean

technologies, biological and chemical waste treatment and waste management have been developed.

Environmental Regulations and Technology Frontiers Media SA

This book details the key concepts, objectives and processes relating to the professional accreditation of engineering bachelor (honours) degrees. The contemporary context of accreditation is examined in terms of the globalised nature of both the engineering profession and higher education. Examples of the processes relating to single and dual accreditation are provided, with examination of the Washington Accord and the requirements of the European Network for Accreditation of Engineering Education. Details are also provided as to how learning outcomes can be structured to demonstrate compliance with accreditation criteria. The final chapters deal briefly with quality assurance processes used in education and the current international quality ranking systems which exist. This book will provide the reader with a detailed examination of outcome based education within the context of Bachelor of Engineering (honours) degrees. A key feature of this book is the side-by-side comparison of different accreditation criteria and a thorough discussion of the relatively new phenomenon of dual accreditation. The book seeks to provide a very clear explanation and exploration of accreditation within the context of engineering education and will benefit those practitioners involved in the accreditation process.

Western Engineer Transportation Research Board

While online courses are said to be beneficial and many reputable brick and mortar higher education institutions are now offering undergraduate and graduate programs online, there is still ongoing debate on issues related to credibility and acceptability. There is some reluctance to teach online and to admit and hire students who have enrolled in online programs. Given these concerns, it is essential that educators in online communities continue to share the significant learning experiences and outcomes that occur in online classrooms and highlight pedagogical practices used by online instructors to make their courses and programs comparable to those offered face-to-face. The *Handbook of Research on Creating Meaningful Experiences in Online Courses* is a comprehensive research book that examines the quality of courses in higher education that are offered exclusively online and details

strategies and practices used by online instructors to create meaningful teaching and learning experiences in online courses. Featuring a range of topics such as gamification, professional development, and learning outcomes, this book is ideal for academicians, researchers, educators, administrators, instructional designers, curriculum developers, higher education faculty, and students.

Handbook of Research on Creating Meaningful Experiences in Online Courses Springer

Thermal energy storage technologies are gaining attention nowadays for uninterrupted supply of solar power in off-sunshine hours. An indigenized solar phase change material (PCM) system was developed and performance evaluated in the current study to efficiently store solar thermal power using a latent heat storage approach, which can be utilized in any subsequent decentralized food processing application. A 2.5 m² laying Scheffler reflector is used to precisely focus the incoming direct normal irradiance (DNI) on a casted aluminum heat receiver (220 mm diameter) from where this concentrated heat energy is absorbed and conducted to the PCM unit by the flow of thermal oil (Fragoltherm-32 thermo-oil). During the

circulation around PCM pipes inside the PCM unit, thermal oil discharges heat energy to the PCM, which undergoes change of phase from solid to liquid. Computational fluid dynamics (CFD) analysis of the PCM unit were also performed according to the actual boundary conditions, which gave satisfactory results in terms of temperature and velocity distribution. With an average DNI of 781 W/m², the highest temperature of the receiver surface during the trials was observed at about 155 C that produces thermal oil at 110°C inside the receiver and around 48°C of PCM in the PCM unit. The heat energy losses per unit time (W) due to the lack of reflectivity from the Scheffler reflector, out-of-focus radiations at the targeted area, absorptivity of heat receiver, piping system losses, and cylinder losses (in the form of conduction, convection, and radiations using 50 mm insulation thickness) were found to be 110 W (10 %), 99 W (9 %), 89 W (8 %), 128 W (12 %), 161 W (15 %), and 89 W (8 %), respectively. These findings of CFD analysis and mathematical modeling were also consistent with real-time data, which was logged through an online Control and Monitoring Interface portal. The final energy available to the PCM was 414W

with an overall system efficiency of 38 %, which can be improved by decreasing thermal losses of the system and using other PCM materials.

Frontiers in Chemistry: Rising Stars 2020 Springer

Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science, engineering, and technology.

Air Force Civil Engineer kassel university press GmbH

In the 1960s and 1970s, John Deere's tractors evolved dramatically from small machines into large, powerful tractors with modern advances and muscular engines; it was a period of the greatest changes since the 1920s. Deere christened these tractors the New Generation. This book in the Tractor Legacy series examines these Big Green machines in detail, with archival and current photography of restored tractors, a thorough historical text, and details of model specifications and variations.

Educational Guide of Pakistan Springer Science & Business Media

Handbook of Research on Wireless Sensor Network Trends, Technologies, and Applications Springer Nature