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 Computer Applications in Concrete Technology, San Antonio, 1987
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ANTONIO AUBREE

AI and Its Convergence With Communication Technologies

Taylor & Francis

This book explores a balance between energy and material, applied to chemical reactors with catalysis, to achieve a given purpose. It includes the fundamentals of chemical reaction engineering and explains reactor design fundamentals. The book spans the full range—from the fundamentals of kinetics and heterogeneous catalysis via modern experimental and theoretical results of model studies—to their equivalent large-scale industrial production processes. It also includes significant developments, with recent research case studies and literature.

Emerging Technologies for Securing the Cloud and IoT Voyageur Press

While Lean principles have been around for decades, the practices have yet to keep current with the growing area of Sustainability. This book provides an implementation approach to integrating Lean and Sustainability principles toward a circular economy. Lean Sustainability: A Pathway to a Circular Economy illustrates an integrated Lean and Sustainability approach that is applicable to manufacturing, healthcare, service, and other industries. This comprehensive approach will guide organizations toward a circular economy to drive competitive business practices further while being environmentally, socially, and economically responsible. The eBook version includes full color images. This book will help any industry practitioner interested in helping their business improve flow, reduce waste, and become more environmentally conscious.

Modern Computational Techniques for Engineering Applications

In an age defined by the transformative ascent of cloud computing and the Internet of Things (IoT), our technological landscape has undergone a revolutionary evolution, enhancing convenience and connectivity in unprecedented ways. This convergence, while redefining how we interact with data and devices, has also brought to the forefront a pressing concern – the susceptibility of these systems to security breaches. As cloud services integrate further into our daily lives and the IoT saturates every aspect of our routines, the looming potential for cyberattacks and data breaches necessitates immediate and robust solutions to fortify the protection of sensitive information, ensuring the privacy and integrity of individuals, organizations, and critical infrastructure. Emerging Technologies for Securing the Cloud and IoT emerges as a comprehensive and timely solution to address the multifaceted security challenges posed by

these groundbreaking technologies. Edited by Amina Ahmed Nacer from the University of Lorraine, France, and Mohammed Riyadh Abdmeziem from Ecole Nationale Supérieure d'Informatique, Algeria, this book serves as an invaluable guide for both academic scholars and industry experts. Its content delves deeply into the intricate web of security concerns, elucidating the potential ramifications of unaddressed vulnerabilities within cloud and IoT systems. With a pragmatic focus on real-world applications, the book beckons authors to explore themes like security frameworks, integration of AI and machine learning, data safeguarding, threat modeling, and more. Authored by esteemed researchers, practitioners, and luminaries, each chapter bridges the divide between theory and implementation, aiming to be an authoritative reference empowering readers to adeptly navigate the complexities of securing cloud-based IoT systems. A crucial resource for scholars, students, professionals, and policymakers striving to comprehend, confront, and surmount contemporary and future security challenges, this book stands as the quintessential guide for ushering in an era of secure technological advancement.

Computer Applications in Concrete Technology, San Antonio, 1987

Dorrance Publishing

At head of title: Airport Cooperative Research Program.

Chemically Deposited Metal Chalcogenide-based Carbon Composites for Versatile Applications

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.

Industrial Internet of Things and Cyber-Physical Systems: Transforming the Conventional to Digital Elsevier

The fifth edition of *Engineering Your Future: An Australasian Guide* serves as a fundamental resource for first-year engineering students across all disciplines within the Australasian region. This comprehensive text places a significant emphasis on practical skills crucial for effective problem-solving and design processes. As the sole locally-focused introductory text in the field, it incorporates a multitude of topical examples drawn from various engineering domains, vividly illustrating the roles and obligations inherent in professional engineering practice. Sustainability, ethical considerations, and proficient communication are recurring themes throughout the text, underscoring their pivotal importance in the engineering profession. Furthermore, the book provides extensive coverage of soft skills alongside problem-solving and design methodologies, enhancing its utility as an indispensable guide for aspiring engineers.

Machine Learning, Image Processing, Network Security and Data Sciences John Wiley & Sons

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.

Green Building in Developing Countries Springer

With the help of artificial intelligence, machine learning, and big data analytics, the internet of things (IoT) is creating partnerships within industry where machines, processes, and humans communicate with one another. As this radically changes traditional industrial operations, this results in the rapid design, cheap manufacture, and effective customization of products. Answering the growing demand of customers and their preferences has become a challenge for such partnerships. **Industrial Internet of Things and Cyber-Physical Systems: Transforming the Conventional to Digital** is a collection of innovative research that discusses development, implementation, and business impacts of IoT technologies on sustainable societal development and improved life quality. Highlighting a wide range of topics such as green technologies, wireless networks, and IoT policy, this book is ideally designed for technology developers, entrepreneurs, industrialists, programmers, engineers, technicians, researchers, academicians, and students.

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

This book satisfies the interest and curiosity of beginners in thin film electrode preparations, characterizations, and device making, while providing insight into the area for experts. The considerable literature on 'metal chalcogenides based carbon composites and their versatile applications' reflect its importance for research and demonstrate how it's now reached a level where the timely review is necessary to understand the current progress and recent trends and future opportunities. In the book, the authors examine recent advances in the state-of-the-art fabrication techniques of metal sulfide based carbon composites along with their working mechanisms, associated issues/solutions, and possible future are discussed. In addition, detailed insight into the properties and various applications including principles, design, fabrication, and engineering aspects are further discussed.

Photoelectrochemical Engineering for Solar Harvesting IGI Global
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.

Engineering Your Future Springer Nature

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

Professional Engineer CRC Press

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.

Multidisciplinary Approaches to Service-Oriented

Engineering Frontiers Media SA

Photoelectrochemical Engineering for Solar Harvesting provides an up-to-date appraisal of the photon engineering of innovative catalysts for solar energy harvesting. Sunlight-driven fuel synthesis is the most sustainable and potentially economical option for producing energy vectors through water splitting. Thus this book focuses on the design of photocatalysts and water oxidation catalysts, as artificial photosynthesis and hydrogen fuel production via water oxidation (in place of fossil fuels) are two promising approaches towards renewable energy. The book critically analyzes the overall progress, potential challenges, and the possibility of industrialization of new catalysts in the near future. The primary emphasis of the discussion is on experimental approaches from materials synthesis to device applications, however, there will also be some introduction to relevant photochemistry concepts. **Photoelectrochemical Engineering for Solar Harvesting** is suitable for materials scientists and chemists who through the use of photonics are in continuous pursuit of improving the efficiencies of different devices used to capture solar energy for the generation of sustainable fuel. Covers design of innovative energy materials such as photocatalysts and water oxidation catalysts for solar energy harvesting. Reviews briefly computational and theoretical approaches before providing comprehensive overview of experimental directions. Provides information to guide photon and photoelectrochemical engineering of catalysts for solar application.

Photoelectrochemistry, Fundamental Processes and Measurement Techniques IGI Global

Muhammad Hamidullah, 1908-2002, scholar in Islamic studies from Pakistan; contributed articles.

Handbook of Research on Creating Meaningful Experiences in Online Courses Springer Nature

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.

Signal IGI Global

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 an conservation, environmental engineering, clean technologies, biological and chemical waste treatment and waste management have been developed.

Educational Directory of Pakistan CRC Press

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.

Optical Engineering IGI Global

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.

Frontiers in Chemistry: Rising Stars 2020 Transportation Research Board

The Wheel Eternal was originally published in Punjabi (the Author's mother tongue) as *sme dee bairr* in 2000. It contains poems written during 1980-2000 while the Poet was living in USA. Dealing with wide-ranging subjects, themes, and issues, the poems embody concern for the human condition that encompasses emotional, biological, sociological, psychological, metaphysical, material, and spiritual aspects of Life. The Author's crusading belligerence springs from his deep faith in Gurbani (Guru's Revealed Word), and his own mind is the battlefield where he is constantly engaged in combat with the forces of evil, immorality, and ugliness, which have now overwhelmed the modern world. The poet feels that the inner consciousness, reason, mind, and understanding of the modern man are not trained spiritually. He has depicted today's religion and its (mal-)practices as a mongrel collection of outdated rituals and rules. In his experience, spirituality deepens the bond among humans, vis-à-vis the Fatherhood of God and brotherhood of man. This work can be placed among the Metaphysical Poets, by virtue of the profundity of its content such as the readers would find irresistibly fascinating.

Organizational Careers Routledge

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.