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 Nanotechnology in Paper and Wood Engineering
 CompetitiveEdge: A Guide to Business Programs 2013
 Examining Federal Vehicle Technology Research and Development Programs
 Developments in Engineering Education Standards: Advanced Curriculum Innovations
 Handbook of Research on Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms
 New Materials for Next-Generation Commercial Transports
 Annual Report of the National Bureau of Standards
 Optimizing Student Engagement in Online Learning Environments
 Research and Advanced Technology for Digital Libraries

TAYLOR MICHAEL

Advanced Methodologies and Technologies in Engineering and Environmental Science Springer

This book constitutes the refereed proceedings of the 12th European Conference on Research and Advanced Technology for Digital Libraries, ECDL 2008, held in Aarhus, Denmark, in September 2008. The 28 revised full papers and 10 revised short papers presented together with 1 panel description, the extended abstracts of 24 revised poster and demo papers were carefully reviewed and selected from a total of 125 submissions. The papers are organized in topical sections on digital preservation, social tagging, quotations and annotations, user studies and system evaluation, from content-centric to person-centric systems, citation analysis, collection building, user interfaces and personalization, interoperability, information retrieval, and metadata generation.

Advanced Battery Management Technologies for Electric Vehicles IGI Global
 The 2016 International Conference on Energy Science and Applied Technology (ESAT 2016) held on

June 25-26 in Wuhan, China aimed to provide a platform for researchers, engineers, and academicians, as well as industrial professionals, to present their research results and development activities in energy science and engineering and its applied technology. The themes presented in Energy Science and Applied Technology ESAT 2016 are: Technologies in Geology, Mining, Oil and Gas; Renewable Energy, Bio-Energy and Cell Technologies; Energy Transfer and Conversion, Materials and Chemical Technologies; Environmental Engineering and Sustainable Development; Electrical and Electronic Technology, Power System Engineering; Mechanical, Manufacturing, Process Engineering; Control and Automation; Communications and Applied Information Technologies; Applied and Computational Mathematics; Methods and Algorithms Optimization; Network Technology and Application; System Test, Diagnosis, Detection and Monitoring; Recognition, Video and Image Processing.

MTConnect: To Measure Is To Know Mixed Reality and Three-Dimensional Computer Graphics
 This volume contains a collection of 22 papers submitted from the below seven symposia held during the 11th International Symposium on Ceramic Materials and Components for Energy and Environmental Applications (CMCEE-11), June 14-19, 2015 in Vancouver, BC, Canada: Additive

Manufacturing Technologies Advanced Materials, Technologies, and Devices for Electro-optical and Biomedical Applications Multifunctional Coatings for Energy and Environmental Applications Novel, Green, and Strategic Processing and Manufacturing Technologies Powder Processing Technology for Advanced Ceramics Computational Design and Modeling Materials for Extreme Environments: Ultra-high Temperature Ceramics (UHTCs) and Nanolaminated Ternary Carbides and Nitrides (MAX Phases)

New Materials for Next-Generation Commercial Transports John Wiley & Sons
 Peterson's CompetitiveEdge: A Guide to Graduate Business Programs 2013 is a user-friendly guide to hundreds of graduate business programs in the United States, Canada, and abroad. Readers will find easy-to-read narrative descriptions that focus on the essential information that defines each business school or program, with photos offering a look at the faces of students, faculty, and important campus locales. Quick Facts offer indispensable data on costs and financial aid information, application deadlines, valuable contact information, and more. Also includes enlightening articles on today's MBA degree, admissions and application advice, new business programs, and more.

Springer Science & Business Media

Mixed Reality and Three-Dimensional Computer GraphicsBoD – Books on Demand

Advanced Methodologies and Technologies in Medicine and Healthcare Springer

This book, MTConnect: To Measure Is To Know, answers the question, "how and why a royalty-free and open source standard is revolutionizing the business and technology of manufacturing." This is the world's first book on MTConnect and open systems. This book is not just about MTConnect, but it is first a book that discusses the many lessons learned in the world of open systems. Dave Edstrom has spent 35 years in the computer industry, where he worked at such companies as Sun Microsystems for over 23 years. Dave helps the reader understand that MTConnect is not an evolution in manufacturing, but it is a revolution and a true game changer. MTConnect is making possible the dreams and desires of generations of manufacturers, machine tool builders and manufacturing equipment providers who all want to see the same goal of different devices having a common connection on the plant floor. Learn how and why the lessons of open systems are being applied to manufacturing and changing the business and technology of manufacturing with MTConnect. It is available at Amazon in paperback and in Kindle format, at Google Play aka Android as well as on iTunes at Apple.

Power Electronics in Renewable Energy Systems and Smart Grid BoD – Books on Demand

The book presents the latest, high-quality, technical contributions and research findings in the areas of data management and smart computing, big data management, artificial intelligence and data analytics, along with advances in network technologies. It discusses state-of-the-art topics as well as the challenges and solutions for future development. It includes original and previously unpublished international research work highlighting research domains from different perspectives. This book is mainly intended for researchers and practitioners in academia and industry.

Wireless Sensor Networks and Ecological Monitoring Ed. Universidad de Cantabria

ECDL 2002 was the 6th conference in the series of European Conferences on Research and Advanced Technologies for Digital Libraries. Following previous events in Pisa (1997), Heraklion

(1998), Paris (1999), Lisbon (2000), and Da- stadt (2001), this year ECDL was held in Rome. ECDL 2002 contributed, - gether with the previous conferences, to establishing ECDL as the major - ropean forum focusing on digital libraries and associated technical, practical, and social issues.

ECDL 2002 continued the tradition already established by the previous conferences in meeting the needs of a large and diverse constituency, which includes researchers, practitioners, educators, policy makers, and users. The focus of ECDL 2002 was on underlying principles, methods, systems, and tools to build and make available e?ective digital libraries to end users. Architecture, metadata, collection building, web archiving, web technologies,- books, OAI applications, preservation, navigation, query languages, audio video retrieval, multimedia-mixed media, user studies and evaluation, humanities, and digital libraries were some of the key issues addressed. An international Program Committee was set up composed of 61 members, with representatives from 25 countries. A total of 145 paper submissions, 15 poster submissions, and 18 proposals for demos were received. Each paper was evaluated by 3 referees and 42 full papers and 6 short papers of high quality were selected for presentation.

Data Management, Analytics and Innovation Springer

Peterson's Graduate Programs in Ocean Engineering, Paper & Textile Engineering, and Telecommunications contains a wealth of information on colleges and universities that offer graduate degrees in these fields. The profiled institutions include those in the United States, Canada, and abroad that are accredited by U.S. accrediting bodies. 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. Readers will find helpful links to in-depth descriptions that offer additional detailed information about a specific program or department, faculty members and their research, and much more. In addition, there are 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.

Sustainable Communication Networks and Application Virtual Photons Electrons, LLC

Ashburn, VA

The comprehensive and authoritative guide to power electronics in renewable energy systems

Power electronics plays a significant role in modern industrial automation and high- efficiency energy systems. With contributions from an international group of noted experts, Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications offers a comprehensive review of the technology and applications of power electronics in renewable energy systems and smart grids. The authors cover information on a variety of energy systems including wind, solar, ocean, and geothermal energy systems as well as fuel cell systems and bulk energy storage systems. They also examine smart grid elements, modeling, simulation, control, and AI applications. The book's twelve chapters offer an application-oriented and tutorial viewpoint and also contain technology status review. In addition, the book contains illustrative examples of applications and discussions of future perspectives. This important resource: Includes descriptions of power semiconductor devices, two level and multilevel converters, HVDC systems, FACTS, and more Offers discussions on various energy systems such as wind, solar, ocean, and geothermal energy systems, and also fuel cell systems and bulk energy storage systems Explores smart grid elements, modeling, simulation, control, and AI applications Contains state-of-the-art technologies and future perspectives Provides the expertise of international authorities in the field Written for graduate students, professors in power electronics, and industry engineers, Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications offers an up-to-date guide to technology and applications of a wide-range of power electronics in energy systems and smart grids.

Environment, Energy and Applied Technology CRC Press

SUMMARY.

Progress in Paper Recycling Artech House

The major objective of this book was to identify issues related to the introduction of new materials and the effects that advanced materials will have on the durability and technical risk of future civil aircraft throughout their service life. The committee investigated the new materials and structural concepts that are likely to be incorporated into next generation commercial aircraft and the factors influencing application decisions. Based on these predictions, the committee attempted to identify the design, characterization, monitoring, and maintenance issues that are critical for the introduction of advanced materials and structural concepts into future aircraft.

Advanced Web and Network Technologies, and Applications CRC Press

This book constitutes the refereed joint proceedings of four international workshops held in conjunction with the 8th Asia-Pacific Web Conference, APWeb 2006, in Harbin, China in January 2006. The 88 revised full papers and 58 revised short papers presented are very specific and contribute to enlarging the spectrum of the more general topics treated in the APWeb 2006 main conference.

The National Earthquake Hazards Reduction Program IOS Press

Digital classrooms have become a common addition to curriculums in higher education; however, such learning systems are only successful if students are properly motivated to learn. Optimizing Student Engagement in Online Learning Environments is a critical scholarly resource that examines the importance of motivation in digital classrooms and outlines methods to reengage learners. Featuring coverage on a broad range of topics such as motivational strategies, learning assessment, and student involvement, this book is geared toward academicians, researchers, and students seeking current research on the importance of maintaining ambition among learners in digital classrooms.

Graduate Programs in Engineering & Applied Sciences 2011 (Grad 5) IGI Global

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.

Aerospace America John Wiley & Sons

This proceedings volume brings together selected peer-reviewed papers presented at the 2014 International Conference on Frontier of Energy and Environment Engineering. Topics covered include energy efficiency and energy management, energy exploration and exploitation, power generation technologies, water pollution and protection, air pollution and

Journal of Research of the National Institute of Standards and Technology IGI Global

This is the first truly comprehensive and most up-to-date handbook available on modern reflector antennas and feed sources for diversified space and ground applications. There has never been such an all-encompassing reflector handbook in print, and no currently available title offers coverage of such recent research developments. The Handbook consists of three volumes. Volume II focuses on feed sources. Reflector antennas are extraordinary devices that combine high gain with geometrical simplicity, and can operate in broad frequency bands. Their performance, however, depends on the electrical characteristics of the feed system with which they operate. This comprehensive volume provides you with a solid understanding of feed system theory, design, and analysis. Featuring chapters authored by experts in each aspect of feed systems, this book takes you from fundamental mathematical techniques, electrically small and large dual reflectors, feed geometry and telemetry, tracking and command antennas, and more. Throughout the book numerous examples are provided to guide you in the practical aspects of feed design.

Research and Advanced Technology for Digital Libraries Springer Nature

DHM and Posturography explores the body of knowledge and state-of-the-art in digital human modeling, along with its application in ergonomics and posturography. The book provides an industry first introductory and practitioner focused overview of human simulation tools, with detailed chapters describing elements of posture, postural interactions, and fields of application. Thus, DHM tools and a specific scientific/practical problem – the study of posture – are linked in a coherent framework. In addition, sections show how DHM interfaces with the most common physical devices for posture analysis. Case studies provide the applied knowledge necessary for practitioners to make informed decisions. Digital Human Modelling is the science of representing humans with their physical properties, characteristics and behaviors in computerized, virtual models. These models can be used standalone, or integrated with other computerized object design systems, to design or study designs, workplaces or products in their relationship with humans. Presents an introductory, up-to-date overview and introduction to all industrially relevant DHM systems that will enable users on trialing, procurement decisions and initial applications Includes user-level examples and case studies of DHM application in various industrial fields Provides a structured and posturography focused compendium that is easy to access, read and understand

Additive Manufacturing and Strategic Technologies in Advanced Ceramics Springer

Science & Business Media

Advancements in medical and healthcare technologies pave the way to improving treatments and diagnoses while also streamlining processes to ensure the highest quality care is given to patients. In the last few decades, revolutionary technology has radically progressed the healthcare industry by increasing life expectancy and reducing human error. Advanced Methodologies and Technologies in Medicine and Healthcare provides emerging research on bioinformatics, medical ethics, and clinical science in modern applications and settings. While highlighting the challenges medical practitioners and healthcare professionals face when treating patients and striving to optimize their processes, the book shows how revolutionary technologies and methods are vastly improving how healthcare is implemented globally. This book is an important resource for medical researchers, healthcare administrators, doctors, nurses, biomedical engineers, and students looking for comprehensive research on the advancements in healthcare technologies.

The President's Report to the Board of Regents for the Academic Year ... Financial Statement for the Fiscal Year Peterson's

The ever-increasing awareness and growing focus on environmental issues such as climate change

and energy use is bringing about an urgency in expanding research to provide possible solutions to these problems. Through current engineering research and emerging technologies, scientists work to combat modern environmental and ecological problems plaguing the globe. Advanced Methodologies and Technologies in Engineering and Environmental Science provides emerging

research on the current and forthcoming trends in engineering and environmental sciences to resolve several issues plaguing researchers such as fossil fuel emission and climate change. While highlighting these challenges, including chemical toxicity environmental responsibility, readers will

learn how engineering applications can be used across disciplines to aid in reducing environmental hazards. This book is a vital resource for engineers, researchers, professors, academicians, and environmental scientists seeking current research on how engineering tools and technologies can be applied to environmental issues.