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MCKEE MATHEWS

Springer

The NTCA conference series is dedicated to publishing peer-reviewed proceedings of the conference. The goal is to disseminate state-of-the-art scientific results available in the domain of civil aviation. These proceedings contain a collection of scientific contributions to the NTCA 2017 conference, which took place in Prague from 7-8 December 2017 and was hosted by the Department of Air Transport, Czech Technical University in Prague with the cooperation of the Faculty of Aeronautics, Technical University of Košice; Institute of Aerospace Engineering, Brno University of Technology; Air Transport Department, University of Žilina, and the Czech Aerospace Society. The NTCA conference aims to build and extend a platform for interaction between communities interested in aviation problems and applications. NTCA 2017 followed this established practice and provided room for discussing and sharing views on the current issues in the field of aviation. As a

result, these proceedings include contributions on air transport operations, air traffic management and economic aspects, aviation safety and security, aircraft technologies, unmanned aerial systems, human factors and ergonomics in aviation.

Ceramic Matrix Composites Elsevier

This book constitutes the thoroughly refereed proceedings of the 9th International Conference on Computer Supported Education, CSEDU 2017, held in Porto, Portugal, in April 2017. The 22 revised full papers were carefully reviewed and selected from 179 submissions. The papers deal with the following topics: new educational environments, best practices and case studies of innovative technology-based learning strategies, institutional policies on computer-supported education including open and distance education.

IJER Vol 24-N4 Elsevier

Photocatalytic Systems by Design: Materials, Mechanisms and Applications explores various aspects of photocatalysis, including the photocatalytic phenomenon and process, applications, and the design of photocatalysts via band gap engineering. The book also covers band edge position engineering for multiple

photocatalytic applications, such as pollutant degradations, hydrogen production, CO₂ reduction into hydrocarbon fuels, antimicrobial disinfections, organic synthesis, N₂ fixation, and more. This book is designed to enable beginners to learn the concepts and applications of photocatalysis. Unlike conventional books on photocatalysis, the book provides a 360° perspective into the field of photocatalysis and serves as an informative handbook for all audiences. Addresses all concepts and applications of photocatalysis Covers the fundamentals, including mechanisms of photocatalytic materials Describes the various material systems and engineering of photocatalysts Offers insight into the schemes for photocatalysis of various materials Discusses the application-specific design of photocatalysts

Trust Management VIII BRILL

This beautifully illustrated pop science book which answers the enduring questions raised by science fiction, such as “Do hoverboards really exist?”, “How can you bring a dinosaur back to life?” and “Can we really travel in time and space?” Packed with stunning images, including 75 illustrations created exclusively for this book, *Blueprint for a Battlestar* takes twenty-five remarkable and memorable technologies from the world of sci-fi, from Star Wars and The Matrix to Ironman and The Terminator. Each concept will be explained and dissected to reveal the real science behind it. Some are boldly obvious – such as the Death Star and exoskeletons – and some less so (think bio-ports or cloaking devices). All are fascinating and will make wonderful explorations into the science of the future as we understand it today.

Enzyme or Whole Cell Immobilization for Efficient Biocatalysis: Focusing on Novel Supporting Platforms and Immobilization Techniques CRC Press

Leading innovation expert Alec Ross explains what's next for the world, mapping out the advances and stumbling blocks that will emerge in the next ten years—for businesses, governments, and the global community—and how we can navigate them. While Alec Ross was working as Hillary Clinton's Senior Advisor on Innovation, he traveled to forty-one countries. He visited some of the toughest places in the world—from refugee camps of Congo to Syrian war zones. From phone-charger stands in Rwanda to R&D labs in South Korea, Ross has seen what the future holds. Over the past two decades, the Internet has radically changed markets and businesses worldwide. In *The Industries of the Future*, Ross shows us what's next, highlighting the best opportunities for progress and explaining why countries thrive or sputter. He examines the specific fields that will most shape our economic future over the next ten years, including cybercrime and cybersecurity, the commercialization of genomics, the next step for big data, and the coming impact of digital technology on money, payments, and markets. And in each of these realms, Ross addresses the toughest questions: How will we have to adapt to the changing nature of work? Is the prospect of cyberwar sparking the next arms race? How can the world's rising nations hope to match Silicon Valley in creating their own innovation hotspots? Ross blends storytelling and economic analysis to give a vivid and informed perspective on how sweeping global trends are affecting the ways we live, incorporating the insights of leaders ranging from the founders of Google and Twitter to defense experts like David Petraeus. *The Industries of the Future* takes the intimidating, complex topics that many of us know to be important and boils them down into clear, plain-spoken language. This is an essential work for understanding how the world works—now and tomorrow—and a must-read for businesspeople, in every sector, from every country.

Top Vol 26-N4 Cambridge University Press

This book constitutes the refereed proceedings of the 8th IFIP WG 11.11 International Conference on Trust Management, IFIPTM 2014, held in Singapore, in July 2014. The 12 revised full papers and 5 short papers presented were carefully reviewed and selected from 36 submissions. In addition, the book contains one invited paper. The papers cover a wide range of topics focusing on the following main areas: trust and reputation models; privacy issues and social and behavioral models of trust; the relationship between trust and security; trust under attacks and trust in the cloud environment.

The Finite Element Method with Heat Transfer and Fluid Mechanics Applications John Wiley & Sons

This book contains proceedings of the International Conference on Advances in Computing, Control and Communication Technology (IAC3T) organized by Centre for Computer Education, Institute of Professional Studies, University of Allahabad during March 25-27, 2016 at Allahabad. A total of 138 full papers were submitted to the conference, out of which about 40 papers were accepted and finally 35 papers were presented during the conference. This book contains these papers. The conference was a major multidisciplinary conference organized with the objective to expose the participants to the emerging trends in the area of computing, control and communication technology. The conference intended to serve as a major international forum for the exchange of ideas and to provide an interactive platform to the students (budding engineers), engineers, researchers and academicians to exchange their innovative ideas and experiences in the area of advancements in computing, control and communication technology.

Foundations of Data Science CRC Press

This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics. The proceedings consist of 82 papers presented at the Science and Mathematics International Conference (SMIC) 2018, organised by the Faculty of Mathematics and Natural Sciences, Universitas Negeri Jakarta, Indonesia. The proceedings are organised in four parts: Science, Science Education, Mathematics, and Mathematics Education. The papers contribute to our understanding of important contemporary issues in science, especially nanotechnology, materials and environmental science; science education, in particular, environmental sustainability, STEM and STEAM education, 21st century skills, technology education, and green chemistry; and mathematics and its application in statistics, computer science, and mathematics education.

Advanced Manufacturing Techniques for Engineering and Engineered Materials Springer

IJER Vol 24-N4 Rowman & Littlefield

Computers Supported Education Frontiers Media SA

This updated and revised first-course textbook in applied probability provides a contemporary and lively post-calculus introduction to the subject of probability. The exposition reflects a desirable balance between fundamental theory and many applications involving a broad range of real problem scenarios. It is intended to appeal to a wide audience, including mathematics and statistics majors, prospective engineers and scientists, and those business and social science majors interested in the quantitative aspects of their disciplines. The textbook contains enough material for a year-long course, though many instructors will use it for a single term (one semester or one quarter). As such, three course syllabi with expanded course outlines are now available for download on the book's page on the Springer website. A one-term course would cover material in the core

chapters (1-4), supplemented by selections from one or more of the remaining chapters on statistical inference (Ch. 5), Markov chains (Ch. 6), stochastic processes (Ch. 7), and signal processing (Ch. 8—available exclusively online and specifically designed for electrical and computer engineers, making the book suitable for a one-term class on random signals and noise). For a year-long course, core chapters (1-4) are accessible to those who have taken a year of univariate differential and integral calculus; matrix algebra, multivariate calculus, and engineering mathematics are needed for the latter, more advanced chapters. At the heart of the textbook's pedagogy are 1,100 applied exercises, ranging from straightforward to reasonably challenging, roughly 700 exercises in the first four "core" chapters alone—a self-contained textbook of problems introducing basic theoretical knowledge necessary for solving problems and illustrating how to solve the problems at hand – in R and MATLAB, including code so that students can create simulations. New to this edition • Updated and re-worked Recommended Coverage for instructors, detailing which courses should use the textbook and how to utilize different sections for various objectives and time constraints • Extended and revised instructions and solutions to problem sets • Overhaul of Section 7.7 on continuous-time Markov chains • Supplementary materials include three sample syllabi and updated solutions manuals for both instructors and students

Current Index to Journals in Education IGI Global

This volume contains papers presented at the International Conference on Engineering Technologies, Engineering Education and Engineering Management (ETEEEM 2014, Hong Kong, 15-16 November 2014). A wide variety of topics is included in the book: - Engineering Education - Education Engineering and Technology - Methods and Learning Mechanism

Towards a Systemic Model for Terminology Planning CRC Press
Previous work on terminology planning can be, more or less, divided into general guidelines, local planning, and translation-based activities. This book, however, by avoiding this line of research and any kind of prescription, represents a movement towards generalisation as a prerequisite of theorisation. Its research is predicated on the hypothesis that all terminological activities are founded upon some fundamental principles, which, at the same time, are manifested through context-bound variations or parameters. A particular advantage of the book is its employing of both field research and a review of research literature. The former allows it to carry out a comparative study by using a maximum variation sampling technique for gathering data from four language agencies of different ecolinguistic situations, namely Termcat (Catalan), TNC (Swedish), DGLFLF (French), and the Academy of Persian Language and Literature in Iran. In order to this, it uses a questionnaire concentrating on the macro- and micro-structures of the target organisations as a route map. The literature review allows the book to benefit from research documents from more than thirty sociolinguistic communities. The book's unique feature includes the introduction of new concepts such as linguistics of science, systemic terminology, systemic planning, terminology argumentation, and sociocognitive terminometrics, among others. A further distinguishing feature is the fact that it discusses terminology not in a vacuum, but as a component of the language of science system.

Photocatalytic Systems by Design Springer

Issue 04 July-Aug-Sept 2014
Diagnosis Of The Contact Interaction Of Solid Bodies At Friction Using Fractal Analysis Methods A.Kh. Janahmadov, M.Y. Javadov, O.A. Dyshin
Were developed the additional quantitative research tools of the surface roughness: the fractal dimension of curvature on the bearing surface and the

fractal dimension of profilograph. These values are used to classify the regimes of the contact interaction of the metal elements at friction and to diagnose the form of contact according to the fractal dimensions scale, which describes the main three types of contacts: elastic, elastic-plastic and plastic.
The Stock Price Valuation Based On The Stochastic Modeling Of Financial Data S.M. Javadova
The stochastic model is developed to forecast a movement of stock prices as function of the Wiener process. The canonical decomposition of function values through discrete number of points is used to generate the Wiener process.
Factors Causing Corrosion And Destruction of Coating in Operation of Oil-Field Pump N.G. Javadov, A.M. Mehtiev
The paper review and analyzes factors that contribute towards corrosion and destruction of coating during operation of oil-field pump. It is noted that factors such as cold, moisture, heat, corrosive components of pumped fluid, mechanical stress, etc., have negative impact.
Relations Of Cytokine Blood Spectrum With Nephropathy At Patients With Diabetes A.N. Babakhanova
Work objective is to study the cytokine status of patients with diabetes of type 1 and type 2 with a complicated nephropathy and an uncomplicated course. 123 patients with diabetes and the control group of 20 people were inspected. By the immune-enzyme analysis of ELISA the levels (INF- γ , TNF- α , IL-6, IL-1 β) were determined in blood serum of the patients. The most expressed changes of the cytokine status were observed in the patients of diabetes of type 1 and type 2 which were expressed in the initial increase of the maintenance of all studied pro-inflammatory cytokines (INF- γ , TNF- α , IL-6, IL-1 β). Such changes in activation of the pro-inflammatory cytokines characterize this disease as an inflammatory immune-dependent process. The changes in the cytokine status had a non-uniform character with the most expressed changes in IL-1 β , TNF- α , INF- γ synthesis ($p \leq 0,001$) and a slight increase of IL-6.

New Trends in Civil Aviation Springer Nature

This textbook begins with the finite element method (FEM) before focusing on FEM in heat transfer and fluid mechanics.

Network Science Rowman & Littlefield

Containing papers presented at the seventeenth in a series of biennial meetings organised by the Wessex Institute and first held in 1984, this book includes the latest research from scientists who perform experiments, researchers who develop computer codes, and those who carry out measurements on prototypes and whose work may interact. Progress in the engineering sciences is dependent on the orderly and concurrent development of all three fields. Continuous improvement in computer efficiency, coupled with diminishing costs and rapid development of numerical procedures have generated an ever-increasing expansion of computational simulations that permeate all fields of science and technology. As these procedures continue to grow in magnitude and complexity, it is essential to be certain of their reliability, i.e. to validate their results. This can be achieved by performing dedicated and accurate experiments. At the same time, current experimental techniques have become more complex and sophisticated so that they require the exploitation of computers, both for running experiments as well as acquiring and processing the resulting data. The papers contained in the book address advances in the interaction between these three areas. They cover such topics as: Computational and Experimental Methods; Fluid Flow; Structural and Stress Analysis; Materials Characterisation; Heat Transfer and Thermal Processes; Advances in Computational Methods; Automotive Applications; Applications in Industry; Process Simulations; Environmental Modelling and Applications; Computer Modelling; Validation of Computer Modelling; Computation in Measurements; Data Processing of Experiments; Virtual Testing

and Verification; Simulation and Forecasting; Measurements in Engineering.

National Library of Medicine Catalog Allied Publishers

This book celebrates the work of Don Pigozzi on the occasion of his 80th birthday. In addition to articles written by leading specialists and his disciples, it presents Pigozzi's scientific output and discusses his impact on the development of science. The book both catalogues his works and offers an extensive profile of Pigozzi as a person, sketching the most important events, not only related to his scientific activity, but also from his personal life. It reflects Pigozzi's contribution to the rise and development of areas such as abstract algebraic logic (AAL), universal algebra and computer science, and introduces new scientific results. Some of the papers also present chronologically ordered facts relating to the development of the disciplines he contributed to, especially abstract algebraic logic. The book offers valuable source material for historians of science, especially those interested in history of mathematics and logic.

Science and Applied Engineering Quarterly Springer Science & Business Media

This volume contains thirty-nine revised and extended research articles, written by prominent researchers participating in the World Congress on Engineering and Computer Science 2014, held in San Francisco, October 22-24 2014. Topics covered include engineering mathematics, electrical engineering, circuit design, communications systems, computer science, chemical engineering, systems engineering and applications of engineering science in industry. This book describes some significant advances in engineering technologies and also serves as an excellent source of reference for researchers and graduate students.

World Congress on Engineering and Computer Science 2014 Cambridge University Press

Computational Science and Engineering contains peer-reviewed research presented at the International Conference on Computational Science and Engineering (RCC Institute of Information Technology, Kolkata, India, 4-6 October 2016). The contributions cover a wide range of topics: - electronic devices - photonics - electromagnetics - soft computing - artificial intelligence - modern communication systems Focussing on strong theoretical and methodological approaches and

applications, Computational Science and Engineering will be of interest to academia and professionals involved or interested in the above mentioned domains.

SAEQ Springer

Teacher Education and Practice, a peer-refereed journal, is dedicated to the encouragement and the dissemination of research and scholarship related to professional education. The journal is concerned, in the broadest sense, with teacher preparation, practice and policy issues related to the teaching profession, as well as being concerned with learning in the school setting. The journal also serves as a forum for the exchange of diverse ideas and points of view within these purposes. As a forum, the journal offers a public space in which to critically examine current discourse and practice as well as engage in generative dialogue. Alternative forms of inquiry and representation are invited, and authors from a variety of backgrounds and diverse perspectives are encouraged to contribute. Teacher Education & Practice is published by Rowman & Littlefield.

Environmental Catalysis and the Corresponding Catalytic Mechanism Springer

This book contains the best selected papers of two Satellite Events held at the 20th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2016, in November 2016 in Bologna, Italy: The Second International Workshop on Educational Knowledge Management, EKM 2016, and the First Workshop: Detection, Representation and Management of Concept Drift in Linked Open Data, Drift-an-LOD 2016. The 6 revised full papers included in this volume were carefully reviewed and selected from the 13 full papers that were accepted for presentation at the conference from the initial 82 submissions. This volume also contains the 37 accepted contributions for the EKAW 2016 tutorials, demo and poster sessions, and the doctoral consortium. The special focus of this year's EKAW was "evolving knowledge", which concerns all aspects of the management and acquisition of knowledge representations of evolving, contextual, and local models. This includes change management, trend detection, model evolution, streaming data and stream reasoning, event processing, time- and space dependent models, contextual and local knowledge representations with a special emphasis on the evolvability and localization of knowledge and the correct usage of these limits.

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