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IAENG Transactions on Electrical Engineering, Volume 1 PHI Learning Pvt. Ltd.

This book presents an extensive collection of the recent findings and innovative research in the information system and knowledge engineering domain. Knowledge engineering is a field within artificial intelligence that develops in particular systems that use knowledge, rather than data, to solve many computing problems, that would usually require high levels of human expertise.

Problems and Solutions in Medical Physics World Scientific

This book gathers the latest advances, innovations, and applications in the field of information technology in civil and building engineering, presented at the 18th International Conference on Computing in Civil and Building Engineering (ICCCBE), São Paulo, Brazil, August 18-20, 2020. It covers highly diverse topics such as BIM, construction information modeling, knowledge management, GIS, GPS, laser scanning, sensors, monitoring, VR/AR, computer-aided construction, product and process modeling, big data and IoT, cooperative design, mobile computing, simulation, structural health monitoring, computer-aided structural control and analysis, ICT in geotechnical engineering, computational mechanics, asset management, maintenance, urban planning, facility management, and smart cities. Written by leading researchers and engineers, and selected by means of a rigorous international peer-review process, the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Industrial Organization and Management Springer Nature

Engineering education in K-12 classrooms is a small but growing phenomenon that may have implications for engineering and also for the other STEM subjects--science, technology, and mathematics. Specifically, engineering education may improve student learning and achievement in science and mathematics, increase awareness of engineering and the work of engineers, boost youth interest in pursuing engineering as a career, and increase the technological literacy of all students. The teaching of STEM subjects in U.S. schools must be improved in order to retain U.S. competitiveness in the global economy and to develop a workforce with the knowledge and skills to address technical and technological issues. *Engineering in K-12 Education* reviews the scope and impact of engineering education today and makes several recommendations to address curriculum, policy, and funding issues. The book also analyzes a number of K-12 engineering curricula in depth and discusses what is known from the cognitive sciences about how children learn engineering-related concepts and skills. *Engineering in K-12 Education* will serve as a reference for science, technology, engineering, and math educators, policy makers, employers, and others concerned about the development of the country's technical workforce. The book will also prove useful to educational researchers, cognitive scientists, advocates for greater public understanding of engineering, and those working to boost technological and scientific literacy.

Marine Engineering/Log CRC Press

Direct Nose-to-Brain Drug Delivery provides the reader with precise knowledge about the strategies and approaches for enhanced nose-to-brain drug delivery. It highlights the development of novel nanocarrier-based drug delivery systems for targeted drug delivery to the brain microenvironments with a focus on the technological advances in the development of the novel drug delivery devices for intranasal administration, including special emphasis on brain targeting through nose. This book explores the various quantification parameters to assess the brain targeting efficiency following intranasal administration and includes an overview on the toxicity aspects of the various materials used to develop the direct nose-to-brain drug delivery vehicles and of the regulatory aspects including patents and current clinical status of the potential neurotherapeutics for the effective management of neuro-ailments. Technological advances in new drug delivery systems with diverse applications in pharmaceutical, biomedical, biomaterials, and biotechnological fields are also explained. This book is a crucial source that will assist the veteran scientists, industrial technologists, and clinical research professionals to develop new drug delivery systems and novel drug administration devices for the treatment of neuro-ailments. Explains the targeting approaches for enhanced brain targeting following intranasal drug administration Explores the various nanocarriers developed to date for neurotherapeutic delivery via nose-to-brain Discusses pharmaceutical and biomedical applications after nose-to-brain delivery of therapeutic pharmaceuticals and biologicals

Essential Radio Astronomy Springer Nature

This volume contains revised and extended research articles written by prominent researchers. Topics covered include electrical engineering, circuits, artificial intelligence, data mining, imaging engineering, bioinformatics, internet computing, software engineering, and industrial applications. The book offers tremendous state-of-the-art advances in electrical engineering and also serves as an excellent reference work for researchers and graduate students working with/on electrical engineering.

laeng Transactions on Electrical Engineering National Academies Press

The ability to genetically engineer oncolytic viruses in order to minimize side effects and improve the selective targeting of tumor cells has opened up novel opportunities for treating cancer. Understanding the mechanisms involved and the complex interaction between the viruses and the immune system will undoubtedly help guide the development of new strategies. Theranostic biomarkers to monitor these therapies in clinical trials serve an important need in this innovative field and demand further research.

Geomechanical Processes during Underground Mining Createspace Independent Publishing Platform

Efficient and rational use of energy is one of the main challenges at present to develop a sustainable society. Long-term economic growth is only possible with the

application of technological improvements in the use of energy. This book is discussing geotechnical systems with large potential for enhancing energy efficiency. Modern manufacturing processes are complex and make ever increasing demands on the use of energy. This work involves multidisciplinary collaboration and research on aspects of energy use in geotechnical systems. The work provides many practical examples and illustrative material and it effectively connects theoretical and practical aspects of efficiency improvement of geotechnical systems. Benefiting from authors' extensive experience in industry and academia it brings together comprehensive technical information on reducing energy consumption. It provides valuable information covering operation of mine equipment and installations and features some topics never previously published in geotechnical courses. The book is appropriate for students, researches, professionals and teachers interested in geotechnical systems and improving its efficiency. Field of knowledge - energy efficiency of geotechnical systems

Canadian Shipping and Marine Engineering News Springer Science & Business Media

A compelling synthesis of ideas from agronomy, medicine, breeding, physiology, population genetics, molecular biology, and biotechnology, *Genetic Glass Ceilings* presents transgenics as an inevitable and desperately necessary approach to securing and diversifying the world's food supply.

Journal of Electricity, Power, and Gas CRC Press

Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions Engineering in K-12 Education National Academies Press

New Software Engineering Paradigm Based on Complexity Science Walter de Gruyter GmbH & Co KG

Includes entries for maps and atlases.

CAEN Newsletter Federal Science and Engineering Support to Universities, Colleges, and Nonprofit Institutions Engineering in K-12 Education

This volume contains revised and extended research articles written by prominent researchers. Topics covered include electrical engineering, circuits, artificial intelligence, data mining, imaging engineering, bioinformatics, internet computing, software engineering, and industrial applications. The book offers tremendous state-of-the-art advances in electrical engineering and also serves as an excellent reference work for researchers and graduate students working with/on electrical engineering.

Springer Science & Business Media

This volume deals with economic aspects of mining companies development strategies, various mineral deposits development techniques, imitational modeling of mine workings with rock massif, methane extraction technologies during coal mining, geomechanical processes during plow mining, mining transport importance for mineral extraction, massif

Voice on the Water Academic Press

This book contains of 39 scientific papers which include the results of research regarding the current directions in the fields of data mining, machine learning and decision-making. This book is devoted to current problems of artificial and computational intelligence including decision-making systems. Collecting, analysis and processing information are the current directions of modern computer science. Development of new modern information and computer technologies for data analysis and processing in various fields of data mining and machine learning create the conditions for increasing effectiveness of the information processing by both the decrease of time and the increase of accuracy of the data processing. The papers are divided in terms of their topic into three sections. The first section "Analysis and Modeling of Hybrid Systems and Processes" contains of 11 papers, and the second section "Theoretical and Applied Aspects of Decision-Making Systems" contains of 11 ones too. There are 17 papers in the third section "Data Engineering, Computational Intelligence and Inductive Modeling". The book is focused to scientists and developers in the fields of data mining, machine learning and decision-making systems.

National Union Catalog Allen & Unwin

Studying successfully at high school, college or university requires more than discipline, diligence and determination. Students must also come to grips with a crucial range of essential skills if they wish to turn toil into triumph. *Study Skills for Successful Students* shows you how to improve your learning skills and performance.

An Academic Life World Scientific

The first in a three-volume set exploring *Problems and Solutions in Medical Physics*, this volume explores common questions and their solutions in Diagnostic Imaging. This invaluable study guide should be used in conjunction with other key textbooks in the field to provide additional learning opportunities. It contains key imaging modalities, exploring X-ray, mammography, and fluoroscopy, in addition to computed tomography, magnetic resonance imaging, and ultrasonography. Each chapter provides examples, notes, and references for further reading to enhance understanding. Features: Consolidates concepts and assists in the understanding and applications of theoretical concepts in medical physics Assists lecturers and instructors in setting assignments and tests Suitable as a revision tool for postgraduate students sitting medical physics, oncology, and radiology sciences examinations

World List of Universities and Other Institutions of Higher Education Princeton University Press

The ideal text for a one-semester course in radio astronomy *Essential Radio Astronomy* is the only textbook on the subject specifically designed for a one-semester introductory course for advanced undergraduates or graduate students in astronomy and astrophysics. It starts from first principles in order to fill gaps in students' backgrounds, make teaching easier for professors who are not expert radio astronomers, and provide a useful reference to the essential equations used by practitioners. This unique textbook reflects the fact that students of multiwavelength astronomy typically can afford to spend only one semester studying the observational techniques particular to each wavelength band. *Essential Radio Astronomy* presents only the most crucial concepts—succinctly and accessibly. It covers the general

principles behind radio telescopes, receivers, and digital backends without getting bogged down in engineering details. Emphasizing the physical processes in radio sources, the book's approach is shaped by the view that radio astrophysics owes more to thermodynamics than electromagnetism. Proven in the classroom and generously illustrated throughout, *Essential Radio Astronomy* is an invaluable resource for students and researchers alike. The only textbook specifically designed for a one-semester course in radio astronomy Starts from first principles Makes teaching easier for astronomy professors who are not expert radio astronomers Emphasizes the physical processes in radio sources Covers the principles behind radio telescopes and receivers Provides the essential equations and fundamental constants used by practitioners Supplementary website includes lecture notes, problem sets, exams, and links to interactive demonstrations An online illustration package is available to professors

Ayer Directory: Newspapers, Magazines and Trade Publications CRC Press

Yoopers see the world through different eyes. In his first non-fiction book, the author relates stories of his passage from a youngster growing up in rural northern Michigan to an engineering retiree returning to his roots. An often humorous and sometimes poignant accounting of his observations, distractions and errant ways, his candid recollections of his struggles and mistakes serve as lessons for younger generations aspiring to succeed and light reading for anyone curious about the small town Yooper experience.

Sealift Frontiers Media SA

This book describes a complete revolution in software engineering based on complexity science through the establishment of NSE – Nonlinear Software Engineering paradigm which complies with the essential principles of complexity science, including the Nonlinearity principle, the Holism principle, the Complexity Arises From Simple Rules principle, the Initial Condition Sensitivity principle, the Sensitivity to Change principle, the Dynamics principle, the Openness principle, the Self-organization principle, and the Self-adaptation principle. The aims of this book are to offer revolutionary solutions to solve the critical problems existing with the old-established software engineering paradigm based on linear thinking and simplistic science complied with the superposition principle, and make it possible to help software development organizations double their productivity, halve their cost, and remove 99% to 99.99% of the defects in their software products, and efficiently handle software complexity, conformity, visibility, and changeability. It covers almost all areas in software engineering. The tools NSE_CLICK - an automatic acceptance testing platform for outsourcing (or internally developed) C/C++ products, and NSE_CLICK_J - an automatic acceptance testing platform for outsourcing (or internally developed) Java products are particularly designed for non-technical readers to view/review how the acceptance testing of a software product developed with NSE can be performed automatically, and how the product developed with NSE is truly maintainable at the customer site. Proceedings of the 18th International Conference on Computing in Civil and Building Engineering UM Libraries

A compelling memoir by the first woman president of a major American university Hanna Holborn Gray has lived her entire life in the world of higher education. The daughter of academics, she fled Hitler's Germany with her parents in the 1930s, emigrating to New Haven, where her father was a professor at Yale University. She has studied and taught at some of the world's most prestigious universities. She was the first woman to serve as provost of Yale. In 1978, she became the first woman president of a major research university when she was appointed to lead the University of Chicago, a position she held for fifteen years. In 1991, Gray was awarded the Presidential Medal of Freedom, the nation's highest civilian honor, in recognition of her extraordinary contributions to education. *An Academic Life* is a candid self-portrait by one of academia's most respected trailblazers. Gray describes what it was like to grow up as a child of refugee parents, and reflects on the changing status of women in the academic world. She discusses the migration of intellectuals from Nazi-held Europe and the transformative role these exiles played in American higher education—and how the émigré experience in America transformed their own lives and work. She sheds light on the character of university communities, how they are structured and administered, and the balance they seek between tradition and innovation, teaching and research, and undergraduate and professional learning. *An Academic Life* speaks to the fundamental issues of purpose, academic freedom, and governance that arise time and again in higher education, and that pose sharp challenges to the independence and scholarly integrity of each new generation.

Fusion Engineering JHU Press

Compilers and operating systems constitute the basic interfaces between a programmer and the machine for which he is developing software. In this book we are concerned with the construction of the former. Our intent is to provide the reader with a firm theoretical basis for compiler construction and sound engineering principles for selecting alternate methods, implementing them, and integrating them into a reliable, economically viable product. The emphasis is upon a clean decomposition employing modules that can be re-used for many compilers, separation of concerns to facilitate team programming, and flexibility to accommodate hardware and system constraints. A reader should be able to understand the questions he must ask when designing a compiler for language X on machine Y, what tradeoffs are possible, and what performance might be obtained. He should not feel that any part of the design rests on whim; each decision must be based upon specific, identifiable characteristics of the source and target languages or upon design goals of the compiler. The vast majority of computer professionals will never write a compiler. Nevertheless, study of compiler technology provides important benefits for almost everyone in the field. • It focuses attention on the basic relationships between languages and machines. Understanding of these relationships eases the inevitable transitions to new hardware and programming languages and improves a person's ability to make appropriate tradeoffs in design and implementation.