Planet Ev Universal Model User Guide

Electronic Governance and Open Society: Challenges in Eurasia **Mechanics and Model-Based Control of Advanced Engineering Systems** **Intelligent Technologies for Information Analysis** The Journal of Physics and Chemistry of Solids **Modeling Complex Turbulent Flows** **Handbook of Research on Fostering Student Engagement With Instructional Technology in Higher Education** *Integrated Optoelectronics* **Artificial Neural Networks and Machine Learning -- ICANN 2014** The Variable Mind? How Apparently Inconsistent Effects Might Inform Model Building *Intelligent Data Engineering and Automated Learning - IDEAL 2002* *Germanium Silicon: Physics and Materials* **Catalysis Volume 33** *Models and Computability* **Soviet Physics, Uspekhi** *The Multi-Messenger Approach to High-Energy Gamma-Ray Sources* **Advanced Technologies for Modeling, Optimization and Control of the Future Distribution Grid** **Proceedings of the 1979 Academy of Marketing Science (AMS) Annual Conference** **Data Mining and Analysis in the Engineering Field** Artificial Neural Networks **Physical Review** The Big Bang and Other Explosions in Nuclear and Particle Astrophysics **The Century of Space Science** **Hadron models and related New Energy issues** Introduction to Cosmic Radiation **Vehicle Systems and Driver Modelling** **Nonlinear Waves: Classical and Quantum Aspects** **Molecular Drug Properties** **Banking Crisis** **Solar and Galactic Cosmic Rays** **Engineering of Micro/Nano Biosystems** **Operationalizing Dynamic Pricing Models** **Functional and Logic Programming** Encyclopedia of Electrochemical Power Sources ?-Bibliography of Mathematical Logic **Models, Modules and Abelian Groups** **The Universal Kabbalah** *Unifying Electrical Engineering and Electronics Engineering* **Neutrino Oscillations And Their Origin, Proceedings Of The Third International Workshop** *Roads and Streets* Physical and Chemical Processes in Gas Dynamicsphysical and Chemical Kinet Ics and Thermodynamics

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Models and Computability Oct 14 2021 Second of two volumes providing a comprehensive guide to the current state of mathematical logic.

Vehicle Systems and Driver Modelling Oct 02 2020 World-class experts from academia and industry assembled at the sixth Biennial Workshop on Digital Signal Processing (DSP) for In-Vehicle Systems at Korea University, Seoul, Korea in 2013. The Workshop covered a wide spectrum of automotive fields, including in-vehicle signal processing and cutting-edge studies on safety, driver behavior, infrastructure, in-vehicle technologies. Contributors to this volume have expanded their contributions to the Workshop into full chapters with related works, methodology, experiments, and the analysis of the findings. Topics in this volume include: DSP technologies for in-vehicle systems Driver status and behavior monitoring In-Vehicle dialogue systems and human machine interfaces In-vehicle video and applications for safety Passive and active driver assistance technologies Ideas and systems for autonomous driving Transportation infrastructure

Roads and Streets Jul 19 2019 Issues for include section: Bituminous roads and streets.

Catalysis Volume 33 Nov 15 2021 This volume looks at modern approaches to catalysis and reviews the extensive literature which bridges the gap from academic studies in the laboratory to practical applications in industry not only for catalysis field but also for environmental protection.

Banking Crisis Jun 29 2010 This report examines the failure of the UK banks. The Committee begins by examining how the present position came about. After looking at the economic situation the report addresses the fate of those banks now partly or wholly owned by the Government, comparing their experiences with those of the building societies. This analysis identifies several key factors as triggering this crisis. First, the growth of risk and complexity, with a concomitant growth in profit, meant that too few people (including many of those in charge) had a clear idea of what was on the banks' books. Second, the banking sector became over-reliant on wholesale funding and discounted any possibility that the wholesale market would dry up; third, rapid growth in the sector was facilitated by increased leverage. The Committee praises the response of the Financial Services Compensation Scheme which had to cope with a dramatic surge in its workload to help compensate those savers in failing institutions. The package of measures the Government has taken to address the problems in the banking sector is then examined and the Committee offers its initial view on these measures. The Government's multi-billion pound stake in the banking sector is being managed by UK Financial Investments Limited (UKFI) and the next section looks at its early work. Finally the report looks at the future of the banking sector, to see if structurally steps can be taken to limit the possibility of another banking crisis.

Neutrino Oscillations And Their Origin, Proceedings Of The Third International Workshop Aug 20 2019 Contents:Solar Neutrinos:The Latest Solar Neutrino Results in Super-Kamiokande (Y Koshio)Weak Current in Deuterium (T Sato)Solar Neutrino Phenomenology and Future:Solar Neutrino Oscillations (M C Gonzalez-Garcia)The Status of Resonant Spin Flavor Precession (C S Lim)Atmospheric Neutrinos:Status of the Atmospheric Neutrino Studies (M D Messier)Cosmic Ray Measurements for Atmospheric Neutrino with BESS-TeV (K Abe)Oscillation Phenomenology I:Calculations of the Atmospheric ? Fluxes (P Lipari)Three-Flavor Analysis of Atmospheric and Solar Neutrinos (A Marrone)Absolute Neutrino Mass:Neutrinoless Double Beta Decay and Neutrino Oscillations (H V Klapdor-Kleingrothaus)Accelerator Neutrinos, CPV:The MINOS Experiment (M D Messier)The JHF-Kamioka Neutrino Project (T Kajita)Models and GUTs:Proton Decay in the Semi-Simple Unification Model (T Watari)Leptogenesis via LHu Flat Direction (M Fujii)Lepton Flavor Violation:Probing Physics Beyond the Standard Model from Lepton Sector (J Hisano)Oscillation Phenomenology II:Four Puzzles of Neutrino Mixing (S M Barr)Supernova Neutrinos:Supernova Neutrinos (J F Beacom)and other papers Readership: Researchers in high energy physics. Keywords:Solar Neutrinos;Atmospheric Neutrinos;Oscillation Phenomenology;Neutrino Mass;Accelerator Neutrinos;CP Violation;GUTs;Lepton Flavor Violation;Supernova Neutrinos

Germanium Silicon: Physics and Materials Dec 16 2021 Since its inception in 1966, the series of numbered volumes known as Semiconductors and Semimetals has distinguished itself through the careful selection of well-known authors, editors, and contributors. The "Willardson and Beer" Series, as it is widely known, has succeeded in publishing numerous landmark volumes and chapters. Not only did many of these volumes make an impact at the time of their publication, but they continue to be well-cited years after their original release. Recently, Professor Eicke R. Weber of the University of California at Berkeley joined as a co-editor of the series. Professor Weber, a well-known expert in the field of semiconductor materials, will further contribute to continuing the series' tradition of publishing timely, highly relevant, and long-impacting volumes. Some of the recent volumes, such as Hydrogen in Semiconductors, Imperfections in III/V Materials, Epitaxial Microstructures, High-Speed Heterostructure Devices, Oxygen in Silicon, and others promise that this tradition will be maintained and even expanded. Reflecting the truly interdisciplinary nature of the field that the series covers, the volumes in Semiconductors and Semimetals have been and will continue to be of great interest to physicists, chemists, materials scientists, and device engineers in modern industry.

Proceedings of the 1979 Academy of Marketing Science (AMS) Annual Conference Jun 10 2021 This volume includes the full proceedings from the 1979 Academy of Marketing Science (AMS) Annual Conference held in Miami, Florida. It provides a variety of quality research in the fields of marketing theory and practice in areas such as consumer behaviour, marketing management, marketing education and international marketing, among others. Founded in 1971, the Academy of Marketing Science is an international organization dedicated to promoting timely explorations of phenomena related to the science of marketing in theory, research, and practice. Among its services to members and the community at large, the Academy offers conferences, congresses and symposia that attract delegates from around the world. Presentations from these events are published in this Proceedings series, which offers a comprehensive archive of volumes reflecting the evolution of the field. Volumes deliver cutting-edge research and insights, complimenting the Academy's flagship journals, the Journal of the Academy of Marketing Science (JAMS) and AMS Review. Volumes are edited by leading scholars and practitioners across a wide range of subject areas in marketing science.

Electronic Governance and Open Society: Challenges in Eurasia Oct 26 2022 This book constitutes the refereed proceedings of the 5th Conference on AElectronic Governance and Open Society: Challenges in Eurasia, EGOSE 2018, held in St. Petersburg, Russia, in November 2018. The 36 revised full papers were carefully reviewed and selected from 98 submissions. The papers are organized in topical sections on smart city infrastructure, policy; digital privacy, rights,security;data science, machine learning, algorithms, computational linguistics; digital public administration, economy, policy; digital services, values, inclusion; digital democracy, participation, security, communities, social media, activism; social media discourse analysis; digital data, policy modeling; digital government, administration, communication.

The Universal Kabbalah Oct 22 2019 This landmark work by an innovative modern Kabbalist develops a scientific model for kabbalistic cosmology and soul psychology. Derived from the kabbalistic diagram of the Tree of Life and the author's own Sabbath Star diagram, this universal model encodes the laws of all cosmic manifestation, giving a mathematical basis to many aspects of this mystical tradition and providing a new synthesis of science and spirituality that may well write a new chapter to the Kabbalah.

Modeling Complex Turbulent Flows Jun 22 2022 Turbulence modeling both addresses a fundamental problem in physics, 'the last great unsolved problem of classical physics,' and has far-reaching importance in the solution of difficult practical problems from aeronautical engineering to dynamic meteorology. However, the growth of supercom puter facilities has recently caused an apparent shift in the focus of tur bulence research from modeling to direct numerical simulation (DNS) and large eddy simulation (LES). This shift in emphasis comes at a time when claims are being made in the world around us that scientific analysis itself will shortly be transformed or replaced by a more powerful 'paradigm' based on massive computation and sophisticated visualization. Although this viewpoint has not lacked ar ticulate and influential advocates, these claims can at best only be judged premature. After all, as one computational researcher lamented, 'the com puter only does what I tell it to do, and not what I want it to do. ' In turbulence research, the initial speculation that computational meth ods would replace not only model-based computations but even experimen tal measurements, have not come close to fulfillment. It is becoming clear that computational methods and model development are equal partners in turbulence research: DNS and LES remain valuable tools for suggesting and validating models, while turbulence models continue to be the preferred tool for practical computations. We believed that a symposium which would reaffirm the practical and scientific importance of turbulence modeling was both necessary and timely.

Physical Review Mar 07 2021

Intelligent Technologies for Information Analysis Aug 24 2022 Today we live in an information age: information has become a commodity, and every second thousands of new records are created. This explosion of massive data sets created by businesses, science and governments necessitates intelligent and more powerful computing paradigms so that users can benefit from this data. This information needs to be summarized and synthesized to support effective problem solving and decision making. The papers in this book assume an interdisciplinary approach based on three major methodologies: first, hybridization, i.e., combining methods in order to harness their strengths and avoid their shortcomings; second, multiphase processing, i.e., the step-wise preparation, evaluation and refinement of data; and, third, multi-agent and distributed processing, i.e., using intelligent agents as well as Web or grid architectures. The final vision of the authors is an intelligent information technology, encompassing theories and applications from, for example, artificial intelligence, data mining, grid computing, and statistical learning. This monograph presents the current state of research and development in both theoretical and application aspects of intelligent information analysis. It is a source of reference and includes numerous examples for researchers, graduate students and advanced professionals working in areas such as electronic commerce, business intelligence, and knowledge grids.

Engineering of Micro/Nano Biosystems Apr 27 2020 This tutorial book offers an in-depth overview of the fundamental principles of micro/nano technologies and devices related to sensing, actuation and diagnosis in fluidics and biosystems. Research in the MEMS/NEMS and lab-on-chip fields has seen rapid growth in both academic and industrial domains, as these biodevices and systems are increasingly replacing traditional large size diagnostic tools. This book is unique in describing not only the devices and technologies but also the basic principles of their operation. The comprehensive description of the fabrication, packaging and principles of micro/nano biosystems presented in this book offers guidance for researchers designing and implementing these biosystems across diverse fields including medical, pharmaceutical and biological sciences. The book provides a detailed overview of the fundamental mechanical, optical, electrical and magnetic principles involved, together with the technologies required for the design, fabrication and characterization of micro/nano fluidic systems and bio-devices. Written by a collaborative team from France and Korea, the book is suitable for academics, researchers, advanced level students and industrial manufacturers.

The Variable Mind? How Apparently Inconsistent Effects Might Inform Model Building Feb 18 2022 Model building is typically based on the identification of a set of established facts in any given field of research, insofar as the model is then evaluated on how well it accounts for these facts. Psychology – and specifically visual word identification and reading – is no exception in this sense (e.g., Amenta & Crepaldi, 2012; Coltheart et al., 2001; Grainger & Jacobs, 1996). What counts as an established fact, however, was never discussed in great detail. It was typically considered, for example, that experimental effects need to replicate across, e.g., individuals, experimental settings, and languages if they are to be believed. The emphasis was on consistency, perhaps under a tacit assumption that the universal principles lying behind our cognitive structures determine our behaviour for the most part (or at least for that part that is relevant for model building). There are signs that a different approach is growing up in reading research. On a theoretical ground, Dennis Norris' Bayesian reader (2006, 2009) has advanced the idea that models can dispense of static forms of representation (i.e., fixed architectures), and process information in a way that is dynamically constrained by context-specific requirements. Ram Frost (2012) has focused on language-specific constraints in the development of general theories of reading. On an empirical ground, the most notable recent advance in visual word identification concern the demonstration that some previously established (in the classic sense) effects depend heavily on language (Velan and Frost, 2011), task (e.g., Duñabeitia et al., 2011; Marelli et al., 2013; Kinoshita and Norris, 2009), or even individual differences (Andrews & Lo, 2012, 2013). Variability has become an intrinsic and informative aspect of cognitive processing, rather than a sign of experimental weakness. This Research Topic aims at moving forward in this new direction by providing an outlet for experimental and theoretical papers that: (i) explore more in depth the theoretical basis for considering variability as an intrinsic property of the human cognitive system; (ii) highlight new context-dependent experimental effects, in a way that is informative on the dynamics of the underlying cognitive processing; (iii) shed new light on known context-dependent experimental effects, again in a way that enhances their theoretical informativeness.

Artificial Neural Networks and Machine Learning -- ICANN 2014 Mar 19 2022 The book constitutes the proceedings of the 24th International Conference on Artificial Neural Networks, ICANN 2014, held in Hamburg, Germany, in September 2014. The 107 papers included in the proceedings were carefully reviewed and selected from 173 submissions. The focus of the papers is on following topics: recurrent networks; competitive learning and self-organisation; clustering and classification; trees and graphs; human-machine interaction; deep networks; theory; reinforcement learning and action; vision; supervised learning; dynamical models and time series; neuroscience; and applications.

Mechanics and Model-Based Control of Advanced Engineering Systems Sep 25 2022 Mechanics and Model-Based Control of Advanced Engineering Systems collects 32 contributions presented at the International Workshop on Advanced Dynamics and Model Based Control of Structures and Machines, which took place in St. Petersburg, Russia in July 2012. The workshop continued a series of international workshops, which started with a Japan-Austria Joint Workshop on Mechanics and Model Based Control of Smart Materials and Structures and a Russia-Austria Joint Workshop on Advanced Dynamics and Model Based Control of Structures and Machines. In the present volume, 10 full-length papers based on presentations from Russia, 9 from Austria, 8 from Japan, 3 from Italy, one from Germany and one from Taiwan are included, which represent the state of the art in the field of mechanics and model based control, with particular emphasis on the application of advanced structures and machines.

Solar and Galactic Cosmic Rays May 29 2020 Solar and Galactic Cosmic Rays

Molecular Drug Properties Jul 31 2020 This first systematic overview for more than a decade is tailor-made for the medicinal chemist. All the chapters are written by experienced drug developers and include practical examples from real drug candidates. Following an introduction to global drug properties and their impact on drug research, screening and combinatorial chemistry libraries, this handbook demonstrates the best and fastest way to estimate those properties most relevant for the efficiency and pharmacokinetic performance of a drug molecule: lipophilicity,solubility, electronic properties and conformation.

Hadron models and related New Energy issues Dec 04 2020 The present book covers a wide-range of issues from alternative hadron models to their likely implications to New Energy research, including alternative interpretation of low-energy reaction (coldfusion) phenomena.The authors explored some new approaches to describe novel phenomena in particle physics. M Pitkanen introduces his nuclear string hypothesis derived from his Topological Geometrodynamics theory, while E. Goldfain discusses a number of nonlinear dynamics methods, including bifurcation, pattern formation (complex Ginzburg-Landau equation) to describe elementary particle masses. Fu Yuhua discusses a plausible method for prediction of phenomena related to New Energy development.F. Smarandache discusses his unmatter hypothesis, and A. Yefremov et al. discuss Yang-Mills field from Quaternion Space Geometry. Diego Rapoport discusses link between Torsion fields and Hadronic Mechanic.A.H. Phillips discusses semiconductor nanodevices, while V. and A. Boju discuss Digital Discrete and Combinatorial methods and their likely implications to New Energy research. Pavel Pintr et al. describe planetary orbit distance from modified Schrodinger equation, and M. Pereira discusses his new Hypergeometrical description of Standard Model of elementary particles.The present volume will be suitable for researchers interested in New Energy issues, in particular their link with alternative hadron models and interpretation.While some of these discussions may be found a bit too theoretical, our view is that once these phenomena can be put into rigorous theoretical framework, thereafter more 'open-minded' physicists may be more ready to consider these New Energy methods more seriously. Our basic proposition in the present book is that considering these new theoretical insights, one can expect there are new methods to generate New Energy technologies which are clearly within reach of human knowledge in the coming years.

Functional and Logic Programming Feb 24 2020 This book discusses issues concerning functional programming, logic programming, and integration of the two. The topics include language design, formal semantics, compilation techniques, program transformation, programming methods, integration of programming paradigms, constraint solving, and concurrency. Contents:Mathematica as a Rewrite Language (B Buchberger)Strong Completeness of a Lazy Conditional Narrowing Calculus (M Hamada & A Middeldorp)The Design and Implementation of Mondrian (E Meijer et al)A Functional Perspective of Array Primitives (T-R Chuang)Curry — A Truly Functional Logic Language (M Hanus)On the Inference of Structured Recursive Effects with Subtyping (M Debbabi et al)Temporal Semantics of a Concurrency Monad with Choice and Services (T Frauenstein et al)Interactive Functional Programming (H Barendregt)Algebraic Semantics for Higher-Order Functional-Logic Programming (M Hamana)Higher-Order Functional-Logic Programming: A Systematic Development (C Prehofer)Currying Multi Methods in a Merge Calculus (H Tsuiki)and other papers Readership: Scientists and engineers in computer science, software engineering/programming and theoretical foundations of computer science. keywords:

Feb 06 2021 This volume of important papers by one the world's leading astrophysicists provides a sweeping survey of the incisive and exciting applications of nuclear and particle physics to a wide range of problems in astrophysics and cosmology. The prime focus of the book is on Big Bang cosmology and the role of primordial nucleosynthesis in establishing the modern consensus on the Big Bang. This leads into the connection of cosmology to particle physics and the constraints put on various elementary particles by astrophysical arguments. Big Bang Nucleosynthesis has also led to the argument for nonbaryonic dark matter and is thus related to the major problem in physical cosmology today, namely, structure formation. The nuclear-particle interface with astrophysics also extends to the other topics of major interest such as the age of the universe, cosmic rays, supernovae, and solar neutrinos, each of which will be discussed in some detail. Each section contains historical papers, current papers, and frequently a popular article on the subject which provides an overview of the topic. This volume is testimony to the success of the integration of nuclear and particle physics with astrophysics and cosmology, and to the ingenuity of the work in this area which has earned the author numerous prestigious awards. The book, which is accessible to beginning graduate students, should be of particular interest to researchers and students in astronomy, astrophysics, cosmology and gravitation, and also in high energy and nuclear physics. Contents:Part A: Basic Big Bang CosmologyPart B: Primordial Nucleosynthesis:Standard ModelDeuterium and Baryon DensityHeliumLithiumCosmological Neutrino CountingAstrophysical Constraints on Particle PropertiesPart C: Other Cosmological Topics:The Very Early UniverseThe Quark-Hadron TransitionDark Matter and Cosmic Structure FormationStructure Formation ContinuedNucleochronologyPart D: Non-Cosmological Topics:Cosmic RaysGalactic EvolutionColliding Neutron Stars and Other ExoticaSolar Neutrinos Readership: Researchers and graduate students in astronomy, astrophysics, cosmology and gravitation, high energy physics and nuclear physics. keywords:

Intelligent Data Engineering and Automated Learning - IDEAL 2002 Jan 17 2022 This book constitutes the refereed proceedings of the Third International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2002, held in Manchester, UK in August 2002. The 89 revised papers presented were carefully reviewed and selected from more than 150 submissions. The book offers topical sections on data mining, knowledge engineering, text and document processing, internet applications, agent technology, autonomous mining, financial engineering, bioinformatics, learning systems, and pattern recognition.

Data Mining and Analysis in the Engineering Field May 09 2021 Particularly in the fields of software engineering, virtual reality, and computer science, data mining techniques play a critical role in the success of a variety of projects and endeavors. Understanding the available tools and emerging trends in this field is an important consideration for any organization. Data Mining and Analysis in the Engineering Field explores current research in data mining, including the important trends and patterns and their impact in fields such as software engineering. With a focus on modern techniques as well as past experiences, this vital reference work will be of greatest use to engineers, researchers, and practitioners in scientific-, engineering-, and business-related fields.

Models, Modules and Abelian Groups Nov 22 2019 This is a memorial volume dedicated to A. L. S. Corner, previously Professor in Oxford, who published important results on algebra, especially on the connections of modules with endomorphism algebras. The volume contains refereed contributions which are related to the work of Corner. It contains also an unpublished extended paper of Corner himself. A memorial volume with important contributions related to algebra.

The Century of Space Science Jan 05 2021 One of the most attractive features of the young discipline of Space Science is that many of the original pioneers and key players involved are still available to describe their field. Hence, at this point in history we are in a unique position to gain first-hand insight into the field and its development. To this end, The Century of Space Science, a scholarly, authoritative, reference book presents a chapter-by-chapter retrospective of space science as studied in the 20th century. The level is academic and focuses on key discoveries, how these were arrived at, their scientific consequences and how these discoveries advanced the thoughts of the key players involved. With over 90 world-class contributors, such as James Van Allen, Cornelis de Jager, Eugene Parker, Reimar Lüst, and Ernst Stuhlinger, and with a Foreword by Lodewijk Woltjer (past ESO Director General), this book will be immensely useful to readers in the fields of space science, astronomy, and the history of science. Both academic institutions and researchers will find that this major reference work makes an invaluable addition to their collection.

Operationalizing Dynamic Pricing Models Mar 27 2020 Steffen Christ shows how theoretic optimization models can be operationalized by employing self-learning strategies to construct relevant input variables, such as latent demand and customer price sensitivity.

Nonlinear Waves: Classical and Quantum Aspects Sep 01 2020 Leading scientists discuss the most recent physical and experimental results in the physics of Bose-Einstein condensate theory, the theory of nonlinear lattices (including quantum and nonlinear lattices), and nonlinear optics and photonics. Classical and quantum aspects of the dynamics of nonlinear waves are considered. The contributions focus on the Gross-Pitaevskii equation and on the quantum nonlinear Schrödinger equation. Recent experimental results on atomic condensates and hydrogen bonded systems are reviewed. Particular attention is given to nonlinear matter waves in periodic potential.

?-Bibliography of Mathematical Logic Dec 24 2019 Gert H. Müller The growth of the number of publications in almost all scientific areas, as in the area of (mathematical) logic, is taken as a sign of our scientifically minded culture, but it also has a terrifying aspect. In addition, given the rapidly growing sophistica tion, specialization and hence subdivision of logic, researchers, students and teachers may have a hard time getting an overview of the existing literature, partic ularly if they do not have an extensive library available in their neighbourhood: they simply do not even know what to ask for! More specifically, if someone vaguely knows that something vaguely connected with his interests exists some where in the literature, he may not be able to find it even by searching through the publications scattered in the review journals. Answering this challenge was and is the central motivation for compiling this Bibliography. The Bibliography comprises (presently) the following six volumes (listed with the corresponding Editors): I. Classical Logic W. Rautenberg 11. Non-classical Logics W. Rautenberg 111. Model Theory H.-D. Ebbinghaus IV. Recursion Theory P.G. Hinman V. Set Theory A.R. Blass VI. ProofTheory; Constructive Mathematics J.E. Kister; D. van Dalen & A.S. Troelstra.

Unifying Electrical Engineering and Electronics Engineering Sep 20 2019 Unifying Electrical Engineering and Electronics Engineering is based on the Proceedings of the 2012 International Conference on Electrical and Electronics Engineering (ICEE 2012). This book collects the peer reviewed papers presented at the conference. The aim of the conference is to unify the two areas of Electrical and Electronics Engineering. The book examines trends and techniques in the field as well as theories and applications. The editors have chosen to include the following topics; biotechnology, power engineering, superconductivity circuits, antennas technology, system architectures and telecommunication.

Advanced Technologies for Modeling, Optimization and Control of the Future Distribution Grid Jul 11 2021

Handbook of Research on Fostering Student Engagement With Instructional Technology in Higher Education May 21 2022 Student engagement relies on the students and their willingness to participate in the learning process and can be enhanced through the application of various technologies within learning environments. However, strategies for implementing these technologies need research and development to be implemented effectively. The Handbook of Research on Fostering Student Engagement With Instructional Technology in Higher Education is a comprehensive academic publication that focuses on the engagement of learners with academics in higher education and especially how this engagement can be fostered with the integration of new technologies. Featuring an array of topics such as gamification, digital literacy, and social networking, this book is ideal for instructors, educators, administrators, curriculum developers, instructional designers, IT consultants, educational software developers, researchers, academicians, and students.

Encyclopedia of Electrochemical Power Sources Jan 25 2020 The Encyclopedia of Electrochemical Power Sources is a truly interdisciplinary reference for those working with batteries, fuel cells, electrolyzers, supercapacitors, and photo-electrochemical cells. With a focus on the environmental and economic impact of electrochemical power sources, this five-volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike. Covers the main types of power sources, including their operating principles, systems, materials, and applications Serves as a primary source of information for electrochemists, materials scientists, energy technologists, and engineers Incorporates nearly 350 articles, with timely coverage of such topics as environmental and sustainability considerations

The Multi-Messenger Approach to High-Energy Gamma-Ray Sources Aug 12 2021 This book provides a theoretical and observational overview of the state of the art of gamma-ray astrophysics, and their impact and connection with the physics of cosmic rays and neutrinos. With the aim of shedding new and fresh light on the problem of the nature of the gamma-ray sources, particularly those yet unidentified, this book summarizes contributions to a workshop that continues today.

Artificial Neural Networks Apr 08 2021 The book reports on the latest theories on artificial neural networks, with a special emphasis on bio-neuroinformatics methods. It includes twenty-three papers selected from among the best contributions on bio-neuroinformatics-related issues, which were presented at the International Conference on Artificial Neural Networks, held in Sofia, Bulgaria, on September 10-13, 2013 (ICANN 2013). The book covers a broad range of topics concerning the theory and applications of artificial neural networks, including recurrent neural networks, super-Turing computation and reservoir computing, double-layer vector perceptrons, nonnegative matrix factorization, bio-inspired models of cell communities, Gestalt laws, embodied theory of language understanding, saccadic gaze shifts and memory formation, and new training algorithms for Deep Boltzmann Machines, as well as dynamic neural networks and kernel machines. It also reports on new approaches to reinforcement learning, optimal control of discrete time-delay systems, new algorithms for prototype selection, and group structure discovering. Moreover, the book discusses one-class support vector machines for pattern recognition, handwritten digit recognition, time series forecasting and classification, and anomaly identification in data analytics and automated data analysis. By presenting the state-of-the-art and discussing the current challenges in the fields of artificial neural networks, bioinformatics and neuroinformatics, the book is intended to promote the implementation of new methods and improvement of existing ones, and to support advanced students, researchers and professionals in their daily efforts to identify, understand and solve a number of open questions in these fields.