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Springer

This book provides basic and fundamental knowledge of various aspects of energy-aware computing at the component, software, and system level. It provides a broad range of topics dealing with power-, energy-, and temperature-related research areas for individuals from industry and academia.

Towards New E-Infrastructure and E-Services for Developing Countries College Physics for AP® CoursesThe College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale.Aplusphysics

This book constitutes the refereed proceedings of the First International Workshop on Self-Organizing Systems, IWSOS 2006.

The book offers 16 revised full papers and 6 revised short papers together with 2 invited talks and 3 poster papers. The papers are organized in topical sections on dynamics of structured and unstructured overlays, self-organization in peer-to-peer networks, self-organization in wireless environments, self-organization in distributed and grid computing, self-managing and autonomic computing, and more.

Recent Trends and Advances in Wireless and IoT-enabled Networks Springer

This book constitutes the thoroughly refereed proceedings of the 12th International Conference on e-Infrastructure and e-Services for

Developing Countries, AFRICOMM 2020, held in Ebene City, Mauritius, in December 2020. Due to COVID-19 pandemic the conference was held virtually. The 20 full papers were carefully selected from 90 submissions. The papers are organized in four thematic sections on dynamic spectrum access and mesh networks; wireless sensing and 5G networks; software-defined networking; Internet of Things; e-services and big data; DNS resilience and performance.

Energy-Aware Communications Woodhead Publishing

This book constitutes the refereed proceedings of the 17th EUNICE 2011 Workshop on energy-aware communications, held in Dresden, in September 2011. The proceedings comprise 16 full papers and 7 poster papers which are presented together with the abstracts of the 3 invited talks. The topics covered are: network architectures; ad-hoc and wireless networks; system simulation; network planning, optimization, and migration; traffic engineering; quality of experience; and energy efficient architectures.

Embedded and Ubiquitous Computing Springer Science & Business Media

Green Communications and Networking introduces novel solutions that can bring about significant reductions in energy consumption in the information and communication technology (ICT) industry-as well as other industries, including electric power. Containing the contributions of leading experts in the field, it examines the latest research advances

Energy Management in Wireless Cellular and Ad-hoc Networks Springer Nature

Provides a systematic overview of a hot research area, examining the principles and theories of energy harvesting communications This book provides a detailed and advanced level introduction to the fundamentals of energy harvesting techniques and their use in state-of-the-art communications systems. It fills the gap in the market by covering both basic techniques in energy harvesting and advanced topics in wireless communications. More importantly, it discusses the

application of energy harvesting in communications systems to give readers at different levels a full understanding of these most recent advances in communications technologies. The first half of Energy Harvesting Communications: Principles and Theories focuses on the challenges brought by energy harvesting in communications. The second part of the book looks at different communications applications enhanced by energy harvesting. It offers in-depth chapters that: discuss different energy sources harvested for communications; examine the energy harvesters used for widely used sources; study the physical layer and upper layer of the energy harvesting communications device; and investigate wireless powered communications, energy harvesting cognitive radios, and energy harvesting relaying as applications. Methodically examines the state-of-the-art of energy harvesting techniques Provides comprehensive coverage from basic energy harvesting sources and devices to the end users of these sources and devices Looks at the fundamental principles of energy harvesting communications, and biomedical application and intra-body communications Written in a linear order so that beginners can learn the subject and experienced users can attain a broader view Written by a renowned expert in the field, Energy Harvesting Communications: Principles and Theories is an excellent resource for students, researchers, and others interested in the subject.

Energy-Efficient Scheduling under Delay Constraints for Wireless Networks John Wiley & Sons

Introducing technology students to basic concepts of physics and its applications through interesting, practical examples (such as karate as an example of impulse), this book covers topics in statics, mechanics, fluids, heat, vibrations and sound, light, atomic physics, nuclear physics and electronics.

Special applications include simple machines, heat engines, optical instruments and solid-state electronics. The text also covers a number of applications not treated in other textbooks, including integrated circuits, x-ray identification of elements, optical spectroscopy and holography, and the use of density measurement as a tool for nondestructive chemical analysis. Each chapter contains a large number of worked examples.

Computational Vision and Bio-Inspired Computing
Springer

Tectonic geomorphology is the study of the interplay between tectonic and surface processes that shape the landscape in regions of active deformation. Recent advances in the quantification of rates and physical basis of tectonic and surface processes have rejuvenated the field of tectonic geomorphology. Modern tectonic geomorphology is an exciting and highly integrative field which utilizes techniques and data derived from studies of geomorphology, seismology, geochronology, structure, geodesy, and Quaternary climate change. While emphasizing new insights from the last decade of research, Tectonic Geomorphology reviews the fundamentals of the subject which include the nature of faulting and folding, the creation and use of geomorphic markers for tracing deformation, chronological techniques which date deformation, geodetic techniques for defining recent deformation, and paleoseismologic approaches to calibrate past deformation. The overall focus of this book is on new interpretations of landform evolution and insights on the interplay between surface processes and tectonics that emerge from integrative studies.

The authors have developed an up-to-date interpretation of landscapes in tectonically active environments for upper-level undergraduate and graduate earth science students and practicing geologists. For an instructor's image bank, please visit:

<http://www.geol.ucsb.edu/faculty/burbank> First text to take a broad interdisciplinary approach: integrated geomorphology, geophysics, and paleoclimatology. Includes the latest technological advances used in dating: Uranium series and dating and observation. Emphasizes the role of surface processes. Focuses on landscapes at different time scales. Provides strong

coverage on numerical modeling of tectonically active landscapes. Presents the recent approaches to calibrating rates of uplift and erosion. Stresses the tectonics of active plate margins in a detailed yet succinct way. Contains "Chapter introductions," "Chapter summaries," and "References" that reinforce principles and theory as well as provide additional background information.

Applied Computation and Security Systems Springer Science & Business Media

Packet delay and energy consumption are important considerations in wireless and sensor networks as these metrics directly affect the quality of service of the application and the resource consumption of the network; especially, for a rapidly growing class of real-time applications that impose strict restrictions on packet delays. Dynamic rate control is a novel technique for adapting the transmission rate of wireless devices, almost in real-time, to opportunistically exploit time-varying channel conditions as well as changing traffic patterns. Since power consumption is not a linear function of the rate and varies significantly with the channel conditions, adapting the rate has significant benefits in minimizing energy consumption. These benefits have prompted significant research in developing algorithms for achieving optimal rate adaptation while satisfying quality of service requirements. In this book, we provide a comprehensive study of dynamic rate control for energy minimization under packet delay constraints. We present several formulations and approaches adopted in the literature ranging from discrete-time formulations and dynamic programming based solutions to continuous-time approaches utilizing ideas from network calculus and stochastic optimal control theory. The goal of this book is to expose the reader to the important problem of wireless data transmission with delay constraints and to the rich set of tools developed in recent years to address it. Table of Contents: Introduction / Transmission Rate Adaptation under Deadline Constraints / Average Delay Constraints

Energy Harvesting Communications Springer Science & Business Media

This book reports on the proceedings of the 5th International Conference on Intelligent, Interactive Systems and Applications (IISA 2020), held in Shanghai, China, on September 25 – 27, 2020. The IISA proceedings, with the latest scientific findings, and methods for solving intriguing problems, are a reference for state-of-the-art works on intelligent and interactive systems. This book covers nine interesting and current

topics on different systems' orientations, including Analytical Systems, Database Management Systems, Electronics Systems, Energy Systems, Intelligent Systems, Network Systems, Optimization Systems, and Pattern Recognition Systems and Applications. The chapters included in this book cover significant recent developments in the field, both in terms of theoretical foundations and their practical application. An important characteristic of the works included here is the novelty of the solution approaches to the most interesting applications of intelligent and interactive systems.

The Handbook of Ad Hoc Wireless Networks
Addison-Wesley

Ad Hoc Wireless Networking is the next big thing in communication. This volume reveals the state-of-the-art of ad hoc wireless networking in addition to giving the fundamentals of routing protocols. It covers the topics of security, TCP performance over wireless links, power conservation, location discovery, scalability, proactivity, routing protocols, computational geometry, and more. The 15 self-contained chapters are authored by experts in wireless networking and mobile computing.

Audience: Both specialists and uninformed readers will find this volume stimulating and helpful.

Proceedings of the Third International Conference on Trends in Information, Telecommunication and Computing Springer

The Energy Internet: An Open Energy Platform to Transform Legacy Power Systems into Open Innovation and Global Economic Engines is an innovative concept that changes the way people generate, distribute and consume electrical energy. With the potential to transform the infrastructure of the electric grid, the book challenges existing power systems, presenting innovative and pioneering theories and technologies that will challenge existing norms on generation and consumption. Researchers, academics, engineers, consultants and policymakers will gain a thorough understanding of the Energy Internet that includes a thorough dissemination of case studies from the USA, China, Japan, Germany and the U.K. The book's editors provide analysis of various enabling technologies and technical solutions, such as control theory,

communication, and the social and economic aspects that are central to obtaining a clear appreciation of the potential of this complex infrastructure. Presents the first complete resource on the innovative concept of the Energy Internet Provides a clear analysis of the architecture of the Energy Internet to ensure an understanding of the technologies behind generating, distributing and consuming electricity in this way Includes a variety of global case studies of real-world implementation and pilot projects to thoroughly demonstrate the theoretical, technological and economic considerations

The Science of Renewable Energy John Wiley & Sons

This book constitutes the refereed proceedings of the International Conference on Embedded and Ubiquitous Computing, EUC 2006, held in Seoul, Korea, August 2006. The book presents 113 revised full papers together with 3 keynote articles, organized in topical sections on power aware computing, security and fault tolerance, agent and distributed computing, wireless communications, real-time systems, embedded systems, multimedia and data management, mobile computing, network protocols, middleware and P2P, and more.

Quality of Service in Heterogeneous Networks Springer

This brief introduces wireless communications ideas and techniques into the study of networked control systems. It focuses on state estimation problems in which sensor measurements (or related quantities) are transmitted over wireless links to a central observer. Wireless communications techniques are used for energy resource management in order to improve the performance of the estimator when transmission occurs over packet dropping links, taking energy use into account explicitly in Kalman filtering and control. The brief allows a reduction in the conservatism of control designs by taking advantage of the assumed. The brief shows how energy-harvesting-based rechargeable batteries or storage devices can offer significant advantages in the deployment of large-scale wireless sensor and actuator networks by avoiding the cost-prohibitive task of battery replacement and allowing self-sustaining sensor to be operation. In contrast with research on energy harvesting largely focused on resource allocation for wireless communication systems design, this brief optimizes estimation objectives such as minimizing the expected estimation error covariance. The resulting power control problems are often stochastic control problems which take into account both system and channel dynamics. The authors show how to pose and solve such design problems

using dynamic programming techniques. Researchers and graduate students studying networked control systems will find this brief a helpful source of new ideas and research approaches.

Green IT: Technologies and Applications John Wiley & Sons

Energy Harvesting Wireless Communications offers a review of the most current research as well as the basic concepts, key ideas and powerful tools of energy harvesting wireless communications. Energy harvesting is both renewable and cheap and has the potential for many applications in future wireless communication systems to power transceivers by utilizing environmental energy such as solar, thermal, wind, and kinetic energy. The authors—noted experts in the field—explore the power allocation for point-to-point energy harvesting channels, power allocation for multi-node energy harvesting channels, and cross-layer design for energy harvesting links. In addition, they offer an in-depth examination of energy harvesting network optimization and cover topics such as energy harvesting ad hoc networks, cost aware design for energy harvesting assisted cellular networks, and energy harvesting in next generation cellular networks.

Integrated Circuit and System Design. Power and Timing Modeling, Optimization and Simulation
Springer Science & Business Media

Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations, this book is integrated with APlusPhysics.com website, which includes online questions and answer forums, videos, animations, and supplemental problems to help you master Regents Physics Essentials.

Physics for Scientists and Engineers, Volume 2: Electricity, Magnetism, Light, and Elementary Modern Physics CRC Press

Implementing energy-efficient CPUs and peripherals as well as reducing resource consumption have become emerging trends in computing. As computers increase in speed and power, their energy issues become more and more prevalent. The need to develop and promote environmentally friendly computer technologies and systems has also come to the forefront

Handbook of Energy-Aware and Green Computing, Volume 2

John Wiley & Sons

The College Physics for AP(R) Courses text is designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement(R) test. This book is Learning List-approved for AP(R) Physics courses. The text and images in this book are grayscale. Handbook of Energy-Aware and Green Computing - Two Volume Set Silly Beagle Productions
New hardcover Volume 2 edition of the classic text, now more than ever tailored to meet the needs of the struggling student.

Conceptual Physics I. K. International Pvt Ltd

The book covers a variety of topics in Information and Communications Technology (ICT) and their impact on innovation and business. The authors discuss various innovations, business and industrial motivations, and impact on humans and the interplay between those factors in terms of finance, demand, and competition. Topics discussed include the convergence of Machine to Machine (M2M), Internet of Things (IoT), Social, and Big Data. They also discuss AI and its integration into technologies from machine learning, predictive analytics, security software, to intelligent agents, and many more. Contributions come from academics and professionals around the world. Covers the most recent practices in ICT related topics pertaining to technological growth, innovation, and business; Presents a survey on the most recent technological areas revolutionizing how humans communicate and interact; Features four sections: IoT, Wireless Ad Hoc & Sensor Networks, Fog Computing, and Big Data Analytics.