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The Research System in Transition

River restoration: a strategic approach to planning and management

Wind Energy Handbook

Feedback Systems

Levels and Trends of Contraceptive Use as Assessed in 2002

Chicago Commercial Express and Western Produce Reporter

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Multi-point Cooperative Communication Systems: Theory and Applications

From its beginning to the death of President Swain, 1789-1868
Internet of Things and Sensors Networks in 5G Wireless Communications
Particles and Nuclei
Schweizer Aussenhandel
Advanced Man-Machine Interaction
Diabetes Its Medical and Cultural History
Integrating Immigrants into the Nordic Labour Markets
Flight Surgeon's Manual
RFID Handbook
Water Waves Generated by Underwater Explosion
Memoirs of My Services in the World War, 1917-1918
Foundations of User-Centric Cell-Free Massive MIMO
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LOPEZ HINES

The Research System in Transition Springer Science & Business Media

This is the fifth report in the series of publications which examine the prevalence of contraceptive use around the world. It contains data covering 160 countries, including 125 developing countries and 35 developed countries, representing 96 per cent of the world population. The review is based primarily on data obtained from nationally representative sample surveys, and includes two new chapters analysing contraceptive use dynamics and national policies relating to fertility, contraception and population growth.

River restoration: a strategic approach to planning and management Nordic Council of Ministers

Modern day cellular mobile networks use Massive MIMO technology to extend range and service multiple devices within a cell. This has brought tremendous improvements in the high peak data rates that can be handled. Nevertheless, one of the characteristics of this technology is large variations in the quality of service dependent on where the end user is located in any given cell. This becomes increasingly problematic when we are creating a society where wireless access is supposed to be ubiquitous. When payments, navigation, entertainment, and control of autonomous vehicles are all relying on wireless connectivity the primary goal for future mobile networks should not be to increase the peak rates, but the rates that can be

guaranteed to the vast majority of the locations in the geographical coverage area. The cellular network architecture was not designed for high-rate data services but for low-rate voice services, thus it is time to look beyond the cellular paradigm and make a clean-slate network design that can reach the performance requirements of the future. This monograph considers the cell-free network architecture that is designed to reach the aforementioned goal of uniformly high data rates everywhere. The authors introduce the concept of a cell-free network before laying out the foundations of what is required to design and build such a network. They cover the foundations of channel estimation, signal processing, pilot assignment, dynamic cooperation cluster formation, power optimization, fronthaul signaling, and spectral efficiency evaluation in uplink and downlink under different degrees of cooperation among the access points and arbitrary linear combining and precoding. This monograph provides the reader with all the fundamental information required to design and build the next generation mobile networks without being hindered by the inherent restrictions of modern cellular-based technology.

Wind Energy Handbook UNESCO Publishing

Wireless Public Safety Networks, Volume Two: A Systematic Approach presents the latest advances in the wireless Public Safety Networks (PSNs) field, the networks established by authorities to either prepare the population for an eminent catastrophe, or those used for support during crisis and normalization phases. Maintaining communication capabilities in a disaster scenario is crucial for avoiding loss of lives and damages to property. This book examines past communication

failures that have directly contributed to the loss of lives, giving readers in-depth discussions of the public networks that impact emergency management, covering social media, crowdsourcing techniques, wearable wireless sensors, moving-cells scenarios, mobility management protocols, 5G networks, broadband networks, data dissemination, and the resources of the frequency spectrum. Provides a focus on specific enabling technologies which can help the most on the deployment and usage of PSNs in real world scenarios Proposes a general framework that has the capability to fulfill the public safety requirements and dynamically adapt to different public safety situations Investigates the problem of data dissemination over PSNs, presenting a review of the state-of-the-art of different information and communication technologies

Feedback Systems Springer

As environmental concerns have focused attention on the generation of electricity from clean and renewable sources wind energy has become the world's fastest growing energy source. The Wind Energy Handbook draws on the authors' collective industrial and academic experience to highlight the interdisciplinary nature of wind energy research and provide a comprehensive treatment of wind energy for electricity generation. Features include: An authoritative overview of wind turbine technology and wind farm design and development In-depth examination of the aerodynamics and performance of land-based horizontal axis wind turbines A survey of alternative machine architectures and an introduction to the design of the key components Description of the wind resource in terms of wind speed frequency distribution and the structure of turbulence

Coverage of site wind speed prediction techniques Discussions of wind farm siting constraints and the assessment of environmental impact The integration of wind farms into the electrical power system, including power quality and system stability Functions of wind turbine controllers and design and analysis techniques With coverage ranging from practical concerns about component design to the economic importance of sustainable power sources, the *Wind Energy Handbook* will be an asset to engineers, turbine designers, wind energy consultants and graduate engineering students.

Levels and Trends of Contraceptive Use as Assessed in 2002 CQ Communications

This book presents a comprehensive analysis of D2D communication over LTE-A band. The book uses 3GPP LTE-A as a baseline and explains all fundamental requirements for deploying D2D network under cellular systems from an architectural, technical and business point of view. The contributors explain the standardization activities of Release 12 of LTE-A, which has been recently acknowledged as support of D2D communication in LTE-A. The text updates the research community on the D2D roadmap as well as new features emerging for consideration in 3GPP.

Chicago Commercial Express and Western Produce Reporter John Wiley & Sons

Diabetes. Its Medical and Cultural History covers the history of scientific inquiry into this affliction from antiquity to the discovery of insulin (1921) with concurrent consideration of the history of the patient and the cultural historical background. The reprints of medical historical studies discuss general relationships as well as

specific details and exceptional research achievements of the past. Included in the bibliography of primary sources are the most important historical contributions in diabetic research and diabetic therapy with the author's name and information on the place of publication. The bibliography of secondary literature consolidates international studies from the past century to the present on the history of the theory of diabetes and therapeutic approaches. Illustrations and literary texts document cultural historical relationships. In index of persons and items facilitates use of this work which is intended to provide a stimulus for the physician, medical historian, medical student, general historian as well as diabetics themselves.

Heathkit Elsevier

On a mountainside in sunny Tuscany, in October 1989, 96 people from 23 countries on five continents gathered to learn and teach about the problems of managing contemporary science. The diversity of economic and political systems represented in the group was matched by our occupations, which stretched from science policy practitioners, through research scientists and engineers, through academic observers of science and science policy. It was this diversity, along with the opportunities for informal discussion provided by long meals and remote location, that made the conference a special learning experience. Except at lecture time, it was impossible to distinguish the "students" at this event from the "teachers," and even the most senior members of the teaching staff went away with a sense that they had learned more from this group than from many a standard conference on science policy they had attended. The flavor of the conference experience cannot be captured adequately in a

proceedings volume, and so we have not tried to create a historical record in this book. Instead, we have attempted to illustrate the core problems the participants at the conference shared, discussed, and debated, using both lectures delivered by the formal teaching staff and summaries of panel discussions, which extended to other participants and therefore increased the range of experiences reported.

Air Corps Newsletter John Wiley & Sons

Describes the implementation of modern features of man-machine interfaces and offers design guidelines, case studies and discusses algorithms for the implementation. Offers access to extensive public domain software for computer vision, classification and virtual reality.

The Coal Fields of Southwestern Washington MDPI

This is the third revised edition of the established and trusted RFID Handbook; the most comprehensive introduction to radio frequency identification (RFID) available. This essential new edition contains information on electronic product code (EPC) and the EPC global network, and explains near-field communication (NFC) in depth. It includes revisions on chapters devoted to the physical principles of RFID systems and microprocessors, and supplies up-to-date details on relevant standards and regulations. Taking into account critical modern concerns, this handbook provides the latest information on: the use of RFID in ticketing and electronic passports; the security of RFID systems, explaining attacks on RFID systems and other security matters, such as transponder emulation and cloning, defence using cryptographic methods, and electronic article surveillance; frequency ranges and radio licensing regulations. The text explores schematic

circuits of simple transponders and readers, and includes new material on active and passive transponders, ISO/IEC 18000 family, ISO/IEC 15691 and 15692. It also describes the technical limits of RFID systems. A unique resource offering a complete overview of the large and varied world of RFID, Klaus Finkenzeller's volume is useful for end-users of the technology as well as practitioners in auto ID and IT designers of RFID products. Computer and electronics engineers in security system development, microchip designers, and materials handling specialists benefit from this book, as do automation, industrial and transport engineers. Clear and thorough explanations also make this an excellent introduction to the topic for graduate level students in electronics and industrial engineering design. Klaus Finkenzeller was awarded the Fraunhofer-Smart Card Prize 2008 for the second edition of this publication, which was celebrated for being an outstanding contribution to the smart card field.

Wireless Public Safety Networks 2 John Wiley & Sons

Expanded, revised and updated here, this detailed guide is truly unique, giving accurate metric equivalents and conversion factors for no fewer than 10,000 scientific units with detailed descriptions of over 2,000. It covers the whole spectrum of science, technology and medicine, and deals with US, British, conventional metric, historic and SI units. The pocket-sized format and slot-in user guide bookmark makes it handy and user-friendly, a great time-saver, and a perfect addition to any research department, engineers, scientists or students library.

5G Wireless Systems Princeton University Press

For the world's leading car-makers, the early 1990s brought radical changes. The reports published by MIT shocked

management in European and American industries. Former major companies had to face consequences no one had expected. The assembly-lines were reorganized in order to achieve higher quality at lower costs. Five years after the MIT report, this book poses the question: What are the results of this revolution in work organization? Scientists and practitioners, many of them involved in earlier reports, evaluate the changes to the automotive industry in Europe and Japan. An insight into recent concepts in automation and the organization of production.

Investors Chronicle Springer

Multi-point Cooperative Communication Systems: Theory and Applications mainly discusses multi-point cooperative communication technologies which are used to overcome the long-standing problem of limited transmission rate caused by the inter-point interference. Instead of combating the interference, recent progress in both academia and industrial standardizations has evolved to adopt the philosophy of “exploiting” the interference to improve the transmission rate by cooperating among multiple points. This book addresses the multi-point cooperative communication system systematically giving the readers a clear picture of the technology map and where the discussed schemes may fit. This book includes not only the theories of the paradigm-shifting multi-point cooperative communication, but also the designs of sub-optimal cooperative communication schemes for practical systems. Ming Ding is a senior researcher at Sharp Laboratories of China; Hanwen Luo is a professor at Shanghai Jiao Tong University.

Economic Aspects of Smoking John Wiley & Sons

From the editors of the highly successful WCDMA for UMTS, this

new book provides a comprehensive and up-to-date reference to High Speed Packet Access (HSPA) technologies for WCDMA. The editors cover both HSDPA and HSUPA, including an in-depth description and explanation of 3GPP standards, and expected performance based on simulations and first measurements. The text also discusses the impact of HSDPA and HSUPA on network dimensioning, covers applications and end-to-end performance in detail, and includes a section on radio frequency requirements and terminal design considerations. The most comprehensive and advanced guide to the HSDPA (High Speed Downlink Packet Access) and HSUPA (High Speed Uplink Packet Access) technologies and standardisation, HSDPA/HSUPA for UMTS: Analyses the impact of HSDPA/HSUPA on network dimensioning, discussing co-existence with R99 (Release 99) and GPRS/EDGE (General Packet Radio Services/ Enhanced Data GSM Environment) Contains a section on applications and end-to-end (e2e) performance Includes a chapter on radio frequency (RF) requirements and terminal design considerations, covering different RF bands, multi-band HSDPA and multi-mode HSDPA+EDGE challenges, power consumption Provides numerous illustrations of 3GPP (Third Generation Partnership Project) standards and performance This title provides excellent coverage of the area for system, element and chip designers, network planners, technical managers with vendors, operators and application developers. It is also ideal for postgraduates and researchers in related areas.

WCDMA for UMTS University of California Press

The Internet of Things (IoT) has attracted much attention from society, industry and academia as a promising technology that

can enhance day to day activities, and the creation of new business models, products and services, and serve as a broad source of research topics and ideas. A future digital society is envisioned, composed of numerous wireless connected sensors and devices. Driven by huge demand, the massive IoT (mIoT) or massive machine type communication (mMTC) has been identified as one of the three main communication scenarios for 5G. In addition to connectivity, computing and storage and data management are also long-standing issues for low-cost devices and sensors. The book is a collection of outstanding technical research and industrial papers covering new research results, with a wide range of features within the 5G-and-beyond framework. It provides a range of discussions of the major research challenges and achievements within this topic.

LTE - The UMTS Long Term Evolution Springer Science & Business Media

The Quiche state in Guatemala flourished for several centuries before being destroyed by the conquistadors in 1524. During the early years of the ensuing period, the Quicheans recorded their past history and legends, writing in their own language but using the Latin alphabet. Many of these chronicles have survived, each illuminating various aspects of pre-conquest Quichean culture. Organized in six sections, Quichean Civilization categorizes all the documented sources describing the Quiche Maya. I. Introduction II. Native Documents III. Primary Spanish Documents IV. Secondary Sources V. Modern Anthropological Sources VI. A Case Study: Título C'oyoi This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give

them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1973.

Smart Device to Smart Device Communication Springer Science & Business Media

La collection Pass'Santé s'adresse aux étudiants en Paces. Chaque titre vous permet un travail d'autoformation et d'autoévaluation efficace grâce à une présentation originale axée sur la rapidité et la convivialité. Vous disposez, sur une même page : des QCM à cocher des réponses occultées par un cache de commentaires des auteurs (explication d'un piège, rappel de cours, conseil, etc.) + Vous vous entraînez dans les conditions des épreuves, sans navigation laborieuse dans l'ouvrage et de manière productive. Ce pack regroupe 4 ouvrages de QCM pour le premier semestre de PACES, en conformité avec le programme : UE 1 Atomes - Biomolécules - Génome - Bioénergétique - Métabolisme. Jean Gabert et coll. UE 2 La cellule et les tissus. Gérard Tachdjian et coll. UE 3a Organisation des appareils et des systèmes - Bases physiques des méthodes d'exploration. Francesco Giammarile et coll. UE 4 Evaluation des méthodes d'analyse appliquées aux sciences de la vie et de la santé. Alain-Jacques Valleron et coll. = Au total quelque 1 000 QCM formulés selon les critères du concours dont une centaine d'illustrations à légènder sur l'UE 2.

Transforming Automobile Assembly John Wiley & Sons

This is the first book on explosion-generated water waves. It presents the theoretical foundations and experimental results of the generation and propagation of impulsively generated waves

resulting from underwater explosions. Many of the theories and concepts presented herein are applicable to other types of water waves, in particular, tsunamis and waves generated by the fall of a meteorite. Linear and nonlinear theories, as well as experimental calibrations, are presented for cases of deep and shallow water explosions. Propagation of transient waves on dissipative, nonuniform bathymetries together with laboratory simulations are analyzed and discussed. Contents: Overview of the Wave Generation Process and the Wave Field Linear Theory of Impulsively Generated Water Waves on a Horizontal Bottom Calibration of the Linear Wave Theory Nonlinear Wave Generation Mechanism and Wave Propagation in Shallow Water Application of Nonlinear Theory and Calibration Dissipative Processes of Wave Propagation Propagation of Transient Waves on Nonuniform Bathymetries Laboratory Simulation of EGWWs BIEM Formulation of Explosion Bubble Dynamics Readership: Professors, researchers and graduate students in hydrodynamics. keywords: "Many of the theories and concepts presented in the book can be applied to other types of water waves. The book fills the gap in literature on design, construction, instrumentation, testing and analysis of physical models of EGWWs." Mathematics Abstracts

Disposition of Surplus Highly Enriched Uranium [TN,SC,VA]

Fundacion BBVA

The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume

resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

Metallurgical Abstracts World Scientific

Highly regarded as the book on the air interface of 3G cellular systems WCDMA for UMTS has again been fully revised and updated. The third edition now covers the key features of 3GPP Release 6 ensuring it remains the leading principal resource in this constantly progressing area. By providing a deep understanding of the WCDMA air interface, the practical approach

of this third edition will continue to appeal to operators, network and terminal manufacturers, service providers, university students and frequency regulators. Explains the key parts of the 3GPP/WCDMA standard Presents network dimensioning, coverage and capacity of WCDMA Introduces TDD and discusses its differences from FDD Key third edition updates include: Covers the main 3GPP Release 6 updates Further enhances High Speed Downlink Packet Access (HSDPA) chapter with a number of new simulation results Explains High Speed Uplink Packet Access (HSUPA) study item Introduces the new services including their performance analysis : Push-to-Talk over Cellular (PoC), streaming, See What I See (SWIS) and multiplayer games Presents a number of new WCDMA field measurement results: capacity, end-to-end performance and handovers Includes

completely updated antenna beamforming and multiuser detection sections featuring new simulation results Introduces TD-SCDMA and compares it to Release TDD

Learning Style Springer

Denmark, Finland, Norway and Sweden face similar problems of integrating large groups of immigrants, especially low-educated ones from outside the EU, into their labour markets. In this volume, researchers from across the Nordic Region analyse how labour market integration of immigrants can be promoted. Education policy, active labour market policy, social benefit policy and wage policy are analysed. A key conclusion is that no single policy is likely to suffice. Instead, various policies have to be combined. The exact policy mix must depend on evaluations of the trade-offs with other policy objectives.