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Wireless Power Transfer Algorithms, Technologies and Applications in Ad Hoc Communication Networks

Springer This book is the first systematic exposition on the emerging domain of wireless power transfer in ad hoc communication networks. It selectively spans a coherent, large spectrum of fundamental aspects of wireless power transfer, such as mobility management in the network, combined wireless power and information transfer, energy flow among network devices, joint activities with wireless power transfer (routing, data gathering and solar energy harvesting), and safety provisioning through electromagnetic radiation control, as well as fundamental and novel circuits and technologies enabling the wide application of wireless powering. Comprising a total of 27 chapters, contributed by leading experts, the content is organized into six thematic sections: technologies, communication, mobility, energy flow, joint operations, and electromagnetic radiation awareness. It will be valuable for researchers, engineers, educators, and students, and it may also be used as a supplement to academic courses on algorithmic applications, wireless protocols, distributed computing, and networking.

Electronics Buying Guide 2006

Digital technology is touching all aspects of our lives from cell phones to digital cameras. Going digital can be exhilarating for some, but stressful for others. Deciding on the right digital product can be difficult when you look at all the choices that are available in the market place. The new edition of Consumers' Report Digital

Buying Guide 2006 can guide consumers in selecting a digital product and easing their anxieties about their purchase. The experts provide hundreds of smart ways to: "Save money and find the best values in computers, plasma televisions, cell phones, cameras, DVD players and more "Get the right high speed Internet connection or go wireless "Establish a communication link between your home computers (networking) "Weeding out spam and protecting your computer from security and privacy threats "Shoot, enhance, and send digital pictures by email "Download music from the internet "Create a home theater with high-definition TV "Enjoy the latest video games online of off "Plus: Exclusive e-Ratings of the best shopping websites

Anna Banana and the Worm of the North

Understanding Ultrasonic Level Measurement

Momentum Press Ultrasonics is a reliable and proven technology for level measurement. It has been used for decades in many diverse industries such as water treatment, mining, aggregates, cement, and plastics. Ultrasonics provides superior inventory accuracy, process control, and user safety. Understanding Ultrasonic Level Measurement is a comprehensive resource in which you will learn about the history of ultrasonics and discover insights about its systems, installation and applications. This book is designed with many user-friendly features and vital resources including: • Real-life application stories • Diagrams and recommendations that aid both the novice and advanced user in the selection and application of an ultrasonic level measurement system • Glossary of terminology

HD Radio Implementation

The Field Guide for Facility Conversion

CRC Press Take the mystery out of the conversion to HD Radio transmission with this hands-on approach to implementation. HD Radio Implementation will take this new subject and make it familiar. With details and descriptions of what HD Radio is, what changes are necessary and unnecessary in the studio, STL path and audio chain, it takes this new technology and makes it friendly so you can successfully convert your station. After reading this book, you will come away with an understanding of how to implement HD Radio for your facility with a minimum of hassles. It is intended to be read and understood by the station Engineer, but the

General Manager, Program Director and Operations Director will be able to understand the nature of HD Radio and how it will affect their facility.

Wireless Sensor Networks Technology, Protocols, and Applications

John Wiley & Sons Infrastructure for Homeland Security Environments Wireless Sensor Networks helps readers discover the emerging field of low-cost standards-based sensors that promise a high order of spatial and temporal resolution and accuracy in an ever-increasing universe of applications. It shares the latest advances in science and engineering paving the way towards a large plethora of new applications in such areas as infrastructure protection and security, healthcare, energy, food safety, RFID, ZigBee, and processing. Unlike other books on wireless sensor networks that focus on limited topics in the field, this book is a broad introduction that covers all the major technology, standards, and application topics. It contains everything readers need to know to enter this burgeoning field, including current applications and promising research and development; communication and networking protocols; middleware architecture for wireless sensor networks; and security and management. The straightforward and engaging writing style of this book makes even complex concepts and processes easy to follow and understand. In addition, it offers several features that help readers grasp the material and then apply their knowledge in designing their own wireless sensor network systems: * Examples illustrate how concepts are applied to the development and application of * wireless sensor networks * Detailed case studies set forth all the steps of design and implementation needed to solve real-world problems * Chapter conclusions that serve as an excellent review by stressing the chapter's key concepts * References in each chapter guide readers to in-depth discussions of individual topics This book is ideal for networking designers and engineers who want to fully exploit this new technology and for government employees who are concerned about homeland security. With its examples, it is appropriate for use as a coursebook for upper-level undergraduates and graduate students.

Global Sources Electronics Mergent Company Archives Manual

Contains the final statistical record of companies which merged, were acquired, went bankrupt or otherwise disappeared as private companies.

OFDM Baseband Receiver Design for Wireless Communications

John Wiley & Sons Orthogonal frequency-division multiplexing (OFDM) access schemes are becoming more prevalent among cellular and wireless broadband systems, accelerating the need for smaller, more energy efficient receiver solutions. Up to now the majority of OFDM texts have dealt with signal processing aspects. To address the current gap in OFDM integrated circuit (IC) instruction, Chiueh and Tsai have produced this timely text on baseband design. OFDM Baseband Receiver Design for Wireless Communications covers the gamut of OFDM technology, from theories and algorithms to architectures and circuits. Chiueh and Tsai give a concise yet comprehensive look at digital communications fundamentals before explaining modulation and signal processing algorithms in OFDM receivers. Moreover, the authors give detailed treatment of hardware issues -- from design methodology to physical IC implementation. Closes the gap between OFDM theory and implementation Enables the reader to transfer communication receiver concepts into hardware design wireless receivers with acceptable implementation loss achieve low-power designs Contains numerous figures to illustrate techniques Features concrete design examples of MC-CDMA systems and cognitive radio applications Presents theoretical discussions that focus on concepts rather than mathematical derivation Provides a much-needed single source of material from numerous papers Based on course materials for a class in digital communication IC design, this book is ideal for advanced undergraduate or post-graduate students from either VLSI design or signal processing backgrounds. New and experienced engineers in industry working on algorithms or hardware for wireless communications devices will also find this book to be a key reference.

Baseband Receiver Design for Wireless MIMO-OFDM Communications

John Wiley & Sons The Second Edition of OFDM Baseband Receiver Design for Wirless Communications, this book expands on the earlier edition with enhanced coverage of MIMO techniques, additional baseband algorithms, and more IC design examples. The authors cover the full range of OFDM technology, from theories and algorithms to architectures and circuits. The book gives a concise yet comprehensive look at digital communication fundamentals before explaining signal processing algorithms in receivers. The authors give detailed treatment of hardware issues - from architecture to IC implementation. Links OFDM and MIMO theory with hardware implementation Enables the reader to transfer communication received concepts into hardware; design wireless receivers with acceptable implemntation loss; achieve

low-power designs Covers the latest standards, such as DVB-T2, WiMax, LTE and LTE-A Includes more baseband algorithms, like soft-decoding algorithms such as BCJR and SOVA Expanded treatment of channel models, detection algorithms and MIMO techniques Features concrete design examples of WiMAX systems and cognitive radio apllications Companion website with lecture slides for instructors Based on materials developed for a course in digital communication IC design, this book is ideal for graduate students and researchers in VLSI design, wireless communications, and communications signal processing. Practicing engineers working on algorithms or hardware for wireless communications devices will also find this to be a key reference.

Microwave Circuit Design Using Linear and Nonlinear Techniques

John Wiley & Sons The ultimate handbook on microwave circuit design with CAD. Full of tips and insights from seasoned industry veterans, Microwave Circuit Design offers practical, proven advice on improving the design quality of microwave passive and active circuits-while cutting costs and time. Covering all levels of microwave circuit design from the elementary to the very advanced, the book systematically presents computer-aided methods for linear and nonlinear designs used in the design and manufacture of microwave amplifiers, oscillators, and mixers. Using the newest CAD tools, the book shows how to design transistor and diode circuits, and also details CAD's usefulness in microwave integrated circuit (MIC) and monolithic microwave integrated circuit (MMIC) technology. Applications of nonlinear SPICE programs, now available for microwave CAD, are described. State-of-the-art coverage includes microwave transistors (HEMTs, MODFETs, MESFETs, HBTs, and more), high-power amplifier design, oscillator design including feedback topologies, phase noise and examples, and more. The techniques presented are illustrated with several MMIC designs, including a wideband amplifier, a low-noise amplifier, and an MMIC mixer. This unique, one-stop handbook also features a major case study of an actual anticollision radar transceiver, which is compared in detail against CAD predictions; examples of actual circuit designs with photographs of completed circuits; and tables of design formulae.

Wireless Communications

Cambridge University Press Wireless technology is a truly revolutionary paradigm shift, enabling multimedia communications between people and devices from any location. It also underpins exciting applications such as sensor networks, smart homes, telemedicine, and automated highways. This book provides a comprehensive introduction to the underlying theory, design techniques and analytical tools of wireless communications, focusing primarily on the core principles of wireless system design. The book begins with an overview of wireless systems and standards. The characteristics of the wireless channel are then described, including their fundamental capacity limits. Various modulation, coding, and signal processing

schemes are then discussed in detail, including state-of-the-art adaptive modulation, multicarrier, spread spectrum, and multiple antenna techniques. The concluding chapters deal with multiuser communications, cellular system design, and ad-hoc network design. Design insights and tradeoffs are emphasized throughout the book. It contains many worked examples, over 200 figures, almost 300 homework exercises, over 700 references, and is an ideal textbook for students.

RioBotz Combat Robot Tutorial

Createspace Independent Publishing Platform Combat robotics is a sport that is practiced world-wide. It attracts all kinds of participants, especially people interested in technology, engineering, machine design, computer science, new technologies and their trends. The competitions involve one-on-one duels between radio-controlled robotic vehicles in a bulletproof arena. RioBotz is the Robotic Competition team from the Pontifical Catholic University of Rio de Janeiro, Brazil. The team is formed by control, mechanical and electrical engineering undergraduate students from the University. This 374-page tutorial tries to summarize the knowledge learned and developed by the team since its creation in 2003. It includes the information on competing as well as designing and building combat robots. This tutorial also includes build reports from all combat robots from RioBotz, including detailed drawings and photos, totaling almost 900 figures.

Wireless Networking Technology From Principles to Successful Implementation

Elsevier As the demand for higher bandwidth has lead to the development of increasingly complex wireless technologies, an understanding of both wireless networking technologies and radio frequency (RF) principles is essential for implementing high performance and cost effective wireless networks. Wireless Networking Technology clearly explains the latest wireless technologies, covering all scales of wireless networking from personal (PAN) through local area (LAN) to metropolitan (MAN). Building on a comprehensive review of the underlying technologies, this practical guide contains 'how to' implementation information, including a case study that looks at the specific requirements for a voice over wireless LAN application. This invaluable resource will give engineers and managers all the necessary knowledge to design, implement and operate high performance wireless networks. · Explore in detail wireless networking technologies and understand the concepts behind RF propagation. · Gain the knowledge and skills required to install, use and troubleshoot wireless networks. · Learn how to address the problems involved in implementing a wireless network, including the impact of signal propagation on operating range, equipment inter-operability problems and many more. · Maximise the efficiency and security of your wireless network.

Free Space Optics

Enabling Optical Connectivity in Today's Networks

Sams Publishing Discusses free-space optics and their use in high-bandwidth systems and high-speed networks, covering topics including the physics behind free-space optics technology and using free-space optics to extend existing networks.

Body Sensor Networks

Springer The last decade has witnessed a rapid surge of interest in new sensing and monitoring devices for wellbeing and healthcare. One key development in this area is wireless, wearable and implantable in vivo monitoring and intervention. A myriad of platforms are now available from both academic institutions and commercial organisations. They permit the management of patients with both acute and chronic symptoms, including diabetes, cardiovascular diseases, treatment of epilepsy and other debilitating neurological disorders. Despite extensive developments in sensing technologies, there are significant research issues related to system integration, sensor miniaturisation, low-power sensor interface, wireless telemetry and signal processing. In the 2nd edition of this popular and authoritative reference on Body Sensor Networks (BSN), major topics related to the latest technological developments and potential clinical applications are discussed, with contents covering. Biosensor Design, Interfacing and Nanotechnology Wireless Communication and Network Topologies Communication Protocols and Standards Energy Harvesting and Power Delivery Ultra-low Power Bio-inspired Processing Multi-sensor Fusion and Context Aware Sensing Autonomic Sensing Wearable, Ingestible Sensor Integration and Exemplar Applications System Integration and Wireless Sensor Microsystems The book also provides a comprehensive review of the current wireless sensor development platforms and a step-by-step guide to developing your own BSN applications through the use of the BSN development kit.

Radar Instruction Manual

Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal and State Agencies.Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration?s three region schools.It soon became apparent that to properly instruct the trainees, even with the advanced equipment, a standardize up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard reference handbook.This newly

updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland Waters navigation.Robert J. BlackwellAssistant Secretary for Maritime Affairs

Information Technology and Mobile Communication

International Conference, AIM 2011, Nagpur, Maharashtra, India, April 21-22, 2011, Proceedings

Springer Science & Business Media This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication, AIM 2011, held at Nagpur, India, in April 2011. The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions. The papers cover all current issues in theory, practices, and applications of Information Technology, Computer and Mobile Communication Technology and related topics.

Wireless Power Transfer for Electric Vehicles: Foundations and Design Approach

Springer Nature This book describes the fundamentals and applications of wireless power transfer (WPT) in electric vehicles (EVs). Wireless power transfer (WPT) is a technology that allows devices to be powered without having to be connected to the electrical grid by a cable. Electric vehicles can greatly benefit from WPT, as it does away with the need for users to manually recharge the vehicles' batteries, leading to safer charging operations. Some wireless chargers are available already, and research is underway to develop even more efficient and practical chargers for EVs. This book brings readers up to date on the state-of-the-art worldwide. In particular, it provides: • The fundamental principles of WPT for the wireless charging of electric vehicles (car, bicycles and drones), including compensation topologies, bi-directionality and coil topologies. • Information on international standards for EV wireless charging. • Design procedures for EV wireless chargers, including software files to help readers test their own designs. • Guidelines on the components and materials for EV wireless chargers. • Review and analysis of the main control

algorithms applied to EV wireless chargers. • Review and analysis of commercial EV wireless charger products coming to the market and the main research projects on this topic being carried out worldwide. The book provides essential practical guidance on how to design wireless chargers for electric vehicles, and supplies MATLAB files that demonstrate the complexities of WPT technology, and which can help readers design their own chargers.

Smart Packaging Technologies for Fast Moving Consumer Goods

John Wiley & Sons Smart Packaging Technologies for Fast Moving Consumer Goods approaches the subject of smart packaging from an innovative, thematic perspective: Part 1 looks at smart packaging technologies for food quality and safety Part 2 addresses smart packaging issues for the supply chain Part 3 focuses on smart packaging for brand protection and enhancement Part 4 centres on smart packaging for user convenience. Each chapter starts with a definition of the technology, and proceeds with an analysis of its workings and components before concluding with snapshots of potential applications of the technology. The Editors, brought together from academia and industry, provide readers with a cohesive account of the smart packaging phenomenon. Chapter authors are a mixture of industry professionals and academic researchers from the UK, USA, EU and Australasia.

Futuristic Communication and Network Technologies

Select Proceedings of VICFCNT 2020

Springer Nature This book presents select proceedings of the International Conference on Futuristic Communication and Network Technologies (CFCNT 2020) conducted at Vellore Institute of Technology, Chennai. It covers various domains in communication engineering and networking technologies. This volume comprises of recent research in areas like optical communication, optical networks, optics and optical computing, emerging trends in photonics, MEMS and sensors, active and passive RF components and devices, antenna systems and applications, RF devices and antennas for microwave emerging technologies, wireless communication for future networks, signal and image processing, machine learning/AI for networks, internet of intelligent things, network security and blockchain technologies. This book will be useful for researchers, professionals, and engineers working in the core areas of electronics and communication.

Computational Science and Its Applications -- ICCSA 2013

13th International Conference, ICCSA 2013, Ho Chi Minh City, Vietnam, June 24-27, 2013, Proceedings, Part V

Springer The five-volume set LNCS 7971-7975 constitutes the refereed proceedings of the 13th International Conference on Computational Science and Its Applications, ICCSA 2013, held in Ho Chi Minh City, Vietnam in June 2013. The 248 revised papers presented in five tracks and 33 special sessions and workshops were carefully reviewed and selected. The 46 papers included in the five general tracks are organized in the following topical sections: computational methods, algorithms and scientific applications; high-performance computing and networks; geometric modeling, graphics and visualization; advanced and emerging applications; and information systems and technologies. The 202 papers presented in special sessions and workshops cover a wide range of topics in computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality.

Computing, Communication and Signal Processing

Proceedings of ICCASP 2018

Springer This book highlights cutting-edge research on various aspects of human–computer interaction (HCI). It includes selected research papers presented at the Third International Conference on Computing, Communication and Signal Processing (ICCASP 2018), organized by Dr. Babasaheb Ambedkar Technological University in Lonere-Raigad, India on January 26–27, 2018. It covers pioneering topics in the field of computer, electrical, and electronics engineering, e.g. signal and image processing, RF and microwave engineering, and emerging technologies such as IoT, cloud computing, HCI, and green computing. As such, the book offers a valuable guide for all scientists, engineers and research students in the areas of engineering and technology.

Advances in Communication, Devices and Networking

Proceedings of ICCDN 2018

Springer The book covers recent trends in the field of devices, wireless communication and networking. It presents the outcomes of the International Conference in Communication, Devices and Networking (ICCDN 2018), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India on 2–3 June, 2018. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on addressing real-world problems in the field of electronics, communication, devices and networking.

Surrogate-Based Modeling and Optimization

Applications in Engineering

Springer Science & Business Media Contemporary engineering design is heavily based on computer simulations. Accurate, high-fidelity simulations are used not only for design verification but, even more importantly, to adjust parameters of the system to have it meet given performance requirements. Unfortunately, accurate simulations are often computationally very expensive with evaluation times as long as hours or even days per design, making design automation using conventional methods impractical. These and other problems can be alleviated by the development and employment of so-called surrogates that reliably represent the expensive, simulation-based model of the system or device of interest but they are much more reasonable and analytically tractable. This volume features surrogate-based modeling and optimization techniques, and their applications for solving difficult and computationally expensive engineering design problems. It begins by presenting the basic concepts and formulations of the surrogate-based modeling and optimization paradigm and then discusses relevant modeling techniques, optimization algorithms and design procedures, as well as state-of-the-art developments. The chapters are self-contained with basic concepts and formulations along with applications and examples. The book will be useful to researchers in engineering and mathematics, in particular those who employ computationally heavy simulations in their design work.

Microwave and RF Design, Volume 1

Radio Systems

NC State University Microwave and RF Design: Radio Systems is a circuits- and systems-oriented approach to modern microwave and RF systems. Sufficient details at the circuits and sub-system levels are provided to understand how modern radios are implemented. Design is emphasized throughout. The evolution of radio from what is now known as 0G, for early radio, through to 6G, for sixth generation cellular radio, is used to present modern microwave and RF engineering concepts. Two key themes unify the text: 1) how system-level decisions affect component, circuit and subsystem design; and 2) how the capabilities of technologies, components, and subsystems impact system design. This book is suitable as both an undergraduate and graduate textbook, as well as a career-long reference book. Key Features * The first volume of a comprehensive series on microwave and RF design * Open access ebook editions are hosted by NC State University Libraries at https://repository.lib.ncsu.edu/handle/1840.20/36776 * 31 worked examples * An average of 38 exercises per chapter * Answers to selected exercises * Coverage of cellular radio from 1G through 6G * Case study of a software defined radio illustrating how modern radios partition functionality between analog and digital domains * A companion book, Fundamentals of Microwave and RF Design, is suitable as a comprehensive undergraduate textbook on microwave engineering

Networked RFID Systems and Lightweight Cryptography

Raising Barriers to Product Counterfeiting

Springer Science & Business Media This book consists of a collection of works on utilizing the automatic identification technology provided by Radio Frequency Identification (RFID) to address the problems of global counterfeiting of goods. The book presents current research, directed to securing supply chains against the efforts of counterfeit operators, carried out at the Auto-ID Labs around the globe. It assumes very little knowledge on the part of the reader on Networked RFID systems as the material provided in the introduction familiarizes the reader with concepts, underlying principles and vulnerabilities of modern RFID systems.

Intelligent Vehicle Technologies

Theory and Applications

Butterworth-Heinemann 'Intelligent Vehicle Technologies' covers the growing field of intelligent technologies, from intelligent control systems to intelligent sensors. Systems such as in-car navigation devices and cruise control are already being introduced into modern vehicles, but manufacturers are now racing to develop systems such as 'smart' cruise control, on-vehicle driver information systems, collision avoidance systems, vision enhancement and roadworthiness diagnostics systems. aimed specifically at the automotive industry packed with practical examples and applications in-depth treatment written in a text book style (rather than a theoretical specialist text style)

Analysis and Design of Integrated Circuit-Antenna Modules

Wiley-Interscience With communications technologies rapidly expanding, the traditional separation of electronic circuits and antenna systems design is no longer feasible. This book covers various design approaches applicable to integrated circuit-antenna modules with the goal of placing the antenna, transmitter, and receiver all on a single chip. It emphasizes analysis and design involving the integration of circuit functions with radiating elements and addresses trends in systems miniaturization.

Applied Cyber-Physical Systems

Springer Science & Business Media Applied Cyber-Physical Systems presents the latest methods and technologies in the area of cyber-physical systems including medical and biological applications. Cyber-physical systems (CPS) integrate computing and communication capabilities by monitoring, and controlling the physical systems via embedded hardware and computers. This book brings together unique contributions from renowned experts on cyber-physical systems research and education with applications. It also addresses the major challenges in CPS, and then provides a resolution with various diverse applications as examples. Advanced-level students and researchers focused on computer science, engineering and biomedicine will find this to be a useful secondary text book or reference, as will professionals working in this field.

Internet of Things Applications

From Research and Innovation to Market Deployment

Internet of Things Applications aims to provide a broad overview of various topics of Internet of Things (IoT) from the research, innovation, and development priorities to enabling technologies, nanoelectronics, cyber physical systems, architecture, interoperability, and industrial applications. It is intended to be a standalone book in a series that covers the IoT activities of the Internet of Things European Research Cluster (IERC) from technology to international cooperation and the global "state of play." The book builds on the ideas put forward by the IERC Strategic Research Agenda and presents global views and state-of-the-art results on the challenges the research, development, and deployment of IoT face at the global level. IoT is creating a revolutionary new paradigm with opportunities in every industry, including Health Care, Pharmaceuticals, Food and Beverage, Agriculture, Computer, Electronics Telecommunications, Automotive, Aeronautics, Transportation Energy, and Retail, to apply the massive potential of the IoT to achieving real-world solutions. The beneficiaries will include semiconductor companies, device and product companies, infrastructure software companies, application software companies, consulting companies, and telecommunication and cloud service providers. IoT will create new revenues annually for these stakeholders and potentially create substantial market share shakeups due to increased technology competition. The IoT will fuel technology innovation by creating the means for machines to communicate several different types of information with one another. At the same time, it will contribute to the increased value of information created by the number of interconnections among things and the transformation of the processed information into knowledge shared in the Internet of Everything. The success of IoT depends strongly on enabling technology development, market acceptance, and standardization, which provides interoperability, compatibility, reliability, and effective operations on a global scale. The connected devices are part of ecosystems connecting people, processes, data, and things which are communicating in the cloud, using the increased storage and computing power and pushing for standardization of communication and metadata. In this context, product manufacturers have to address security, privacy, safety, and trust through the life cycle of their products, from design to the support processes. The IoT developments address the whole IoT spectrum - from devices at the edge to cloud and datacentres on the backend and everything in between - through ecosystems created by industry, research, and application stakeholders that enable real-world use cases to accelerate the IoT and establish open interoperability standards and common architectures for IoT solutions. Enabling technologies such as nanoelectronics, sensors/actuators, cyber-physical systems, intelligent device management, smart gateways, telematics, smart network infrastructure, cloud computing, and software technologies will create new products, services, and interfaces by creating smart environments and smart spaces with applications ranging from Smart Cities, smart transport, buildings, energy, and grid to smart health and life. Technical topics

discussed in the book include: * Introduction * Internet of Things Strategic Research and Innovation Agenda * Internet of Things in the industrial context: Time for deployment. * Integration of heterogeneous smart objects, applications and services * Evolution from device to semantic and business interoperability * Software define and virtualization of network resources * Innovation through interoperability and standardisation when everything is connected anytime at anyplace * Dynamic context-aware scalable and trust-based IoT Security, Privacy framework * Federated Cloud service management and the Internet of Things * Internet of Things Applications

Mobile Ad Hoc Networking

Cutting Edge Directions

John Wiley & Sons "An excellent book for those who are interested in learning thecurrent status of research and development . . . [and] who want toget a comprehensive overview of the currentstate-of-the-art." —E-Streams This book provides up-to-date information on research anddevelopment in the rapidly growing area of networks based on themultihop ad hoc networking paradigm. It reviews all classes ofnetworks that have successfully adopted this paradigm, pointing outhow they penetrated the mass market and sparked breakthroughresearch. Covering both physical issues and applications, Mobile Ad HocNetworking: Cutting Edge Directions offers useful tools forprofessionals and researchers in diverse areas wishing to learn about the latest trends in sensor, actuator, and robotnetworking, mesh networks, delay tolerant and opportunisticnetworking, and vehicular networks. Chapter coverage includes: Multihop ad hoc networking Enabling technologies and standards for mobile multihopwireless networking Resource optimization in multiradio multichannel wireless meshnetworks QoS in mesh networks Routing and data dissemination in opportunistic networks Task farming in crowd computing Mobility models, topology, and simulations in VANET MAC protocols for VANET Wireless sensor networks with energy harvesting nodes Robot-assisted wireless sensor networks: recent applicationsand future challenges Advances in underwater acoustic networking Security in wireless ad hoc networks Mobile Ad Hoc Networking will appeal to researchers,developers, and students interested in computer science, electricalengineering, and telecommunications.

Advances in Emerging Trends and Technologies

Proceedings of ICAETT 2020

Springer Nature This book constitutes the proceedings of the 2nd International Conference on Advances in Emerging Trends and Technologies (ICAETT 2020), held

in Riobamba, Ecuador, on 26–30 October 2019, proudly organized by Facultad de Informática y Electrónica (FIE) at Escuela Superior Politécnica de Chimborazo and supported by GDEON. ICAETT 2020 brings together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: Communicationse-Government and e-Participatione-LearningElectronicIntelligent SystemsMachine VisionSecurityTechnology Trends

Intelligent Computing Techniques for Smart Energy Systems

Proceedings of ICTSES 2018

Springer Nature The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work in these areas. The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval.

Manual of Traffic Engineering Studies

Counter-intelligence (CI)/human Intelligence (HUMINT)

Getting Started with Drones

Build and Customize Your Own

Quadcopter

Maker Media, Inc. Want to make something that can fly? How about a flying robot? In this book, you'll learn how drones work, how to solve some of the engineering challenges a drone presents, and how to build your own--an autonomous quadcopter that you can build, customize, and fly. Your drone will be your eyes in the sky and in places where a human could never get to-much less fit!

Wireless Networking in the Developing World

A Practical Guide to Planning and Building

Orange Groove Books Provides instructions on how to build low-cost telecommunications infrastructure. Topics covered range from basic radio physics and network design to equipment and troubleshooting, a chapter on Voice over IP (VoIP), and a selection of four case studies from networks deployed in Latin America. The text was written and reviewed by a team of experts in the field of long distance wireless networking in urban, rural, and remote areas. Contents: 1) Where to Begin. 2) A Practical Introduction to Radio Physics. 3) Network Design. 4) Antennas & Transmission Lines. 5) Networking Hardware. 6) Security & Monitoring. 7) Solar Power. 8) Building an Outdoor Node. 9) Troubleshooting. 10) Economic Sustainability. 11) Case Studies. See the website for translations, including French, Spanish, Portuguese, Italian, Arabic, and others, and additional case studies, training course material, and related information

Cyber Security

A Crisis of Prioritization

Measurement and Modeling of Silicon Heterostructure Devices

CRC Press When you see a nicely presented set of data, the natural response is: "How did they do that; what tricks did they use; and how can I do that for myself?" Alas, usually, you must simply keep wondering, since such tricks-of- the-trade are usually held close to the vest and rarely divulged. Shamefully ignored in the technical literature, measurement and modeling of high-speed semiconductor

devices is a fine art. Robust measuring and modeling at the levels of performance found in modern SiGe devices requires extreme dexterity in the laboratory to obtain reliable data, and then a valid model to fit that data. Drawn from the comprehensive and well-reviewed Silicon Heterostructure Handbook, this volume focuses on measurement and modeling of high-speed silicon heterostructure devices. The chapter authors provide experience-based tricks-of-the-trade and the subtle nuances of measuring and modeling advanced devices, making this an important reference for the semiconductor industry. It includes easy-to-reference appendices covering topics such as the properties of silicon and germanium, the generalized Moll-Ross relations, the integral charge-control model, and sample SiGe HBT compact model parameters.