Bluetooth OnOff

Nuno Borges Carvalho,Apostolos Georgiadis

Wireless Power Transmission for Sustainable Electronics Nuno Borges Carvalho,Apostolos Georgiadis,2020-01-30 Provides a collection of works produced by COST Action IC1301 with the goal of achieving significant advances in the field of wireless power transmission This book constitutes together information from COST Action IC1301, a group of academic and industry experts seeking to align research efforts in the field of wireless power transmission (WPT). It begins with a discussion of backscatter as a solution for Internet of Things (IoT) devices and goes on to describe ambient backscattering sensors that use FM broadcasting for low cost and low power wireless applications. The book also explores localization of passive RFID tags and augmented tags using nonlinearities of RFID chips. It concludes with a review of methods of electromagnetic characterization of textile materials for the development of wearable antennas. Wireless Power Transmission for Sustainable Electronics: COST WiPE - IC1301 covers textile-supported wireless energy transfer, and reviews methods for the electromagnetic characterization of textile materials for the development of wearable antennas. It also looks at: backscatter RFID sensor systems for remote health monitoring; simultaneous localization (of robots and objects) and mapping (SLAM); autonomous system of wireless power distribution for static and moving nodes of wireless sensor networks; and more. Presents techniques for smart beam-forming for on demand wireless power transmission (WPT) Discusses RF and microwave energy harvesting for space applications Describes miniaturized RFID transponders for object identification and sensing Wireless Power Transmission for Sustainable Electronics: COST WiPE - IC1301 is an excellent book for both graduate students and industry engineers involved in wireless communications and power transfer, and sustainable materials for those fields.

Getting Started with Bluetooth Low Energy Kevin Townsend,Carles Cufí,Akiba,Robert Davidson,2014-04-30 With Bluetooth Low Energy (BLE), smart devices are about to become even smarter. This practical guide demonstrates how this exciting wireless technology helps developers build mobile apps that share data with external hardware, and how hardware engineers can gain easy and reliable access to mobile operating systems. This book provides a solid, high-level overview of how devices use BLE to communicate with each other. You'll learn useful low-cost tools for developing and testing BLE-enabled mobile apps and embedded firmware and get examples using various development platforms—including iOS and Android for app developers and embedded platforms for product designers and hardware engineers. Understand how data is organized and transferred by BLE devices Explore BLE's concepts, key limitations, and network topology Dig into the protocol stack to grasp how and why BLE operates Learn how BLE devices discover each other and establish secure connections Set up the tools and infrastructure for BLE application development Get examples for connecting BLE to iPhones, iPads, Android devices, and sensors Develop code for a simple device that transmits heart rate data to a mobile device

IoT and Low-Power Wireless Christopher Siu,2018-06-14 The book offers unique insight into the modern world of wireless communication that included 5G generation, implementation in Internet of Things (IoT), and emerging biomedical applications. To meet different design requirements, gaining perspective on systems is important. Written by international experts in industry and academia, the intended audience is practicing engineers with some electronics background. It presents the latest research and practices in wireless communication, as industry prepares for the next evolution towards a trillion interconnected devices. The text further explains how modern RF wireless systems may handle such a large number of wireless devices. Covers modern wireless technologies (5G, IoT), and emerging biomedical applications Discusses novel RF systems, CMOS low power circuit implementation, antennae arrays, circuits for medical imaging, and many other emerging technologies in wireless co-space. Written by a mixture of top industrial experts and key academic professors.

Radio Link Quality Estimation in Low-Power Wireless Networks Nouha Baccour,Anis Koubâa,Claro Noda,Hossein Fotouhi,Mário Alves,Habib Youssef,Marco Antonio Zúñiga,Carlo Alberto Boano,Kay Römer,Daniele Puccinelli,Thiemo Voigt,Luca Mottola,2013-07-18 This book provides a comprehensive survey on related work for radio link quality estimation, which covers the characteristics of low-power links, the fundamental concepts of link quality estimation in wireless sensor networks, a taxonomy of existing link quality estimators and their performance analysis. It then shows how link quality estimation can be used for designing protocols and mechanisms such as routing and hand-off. The final part is dedicated to radio interference estimation, generation and mitigation.

Unleash Your Smartphones's Power Android & IOS Enrique G., Attention smartphone users: Are you ready to unlock the true potential of your device? Interest: From shopping for the right model to setting up your new device, customizing its settings, and even maintaining its performance, From Zero to Ninja: Buy it, Set Up it, Customize it, Maintain it with Free Support! is your ultimate guide! Desire: Imagine having the confidence and knowledge to use your smartphone like a pro! From the most basic tasks to the more complex functionalities, you will be able to navigate your device effortlessly. No more confusion, no more frustration, just smooth and efficient use of your smartphone. □□ Action: Don't let technology intimidate you! Join the ranks of our tech-savvy readers today and discover how to get the most out of your Android or Apple smartphone! Plus, with your purchase, you'll get free support via various platforms to assist you on your tech journey. Tap into the knowledge today! □ Hashtags: #SmartphoneNinja #TechGuide #Android #Apple

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Wideband FM Techniques for Low-Power Wireless Communications John Gerrits,2016-06-15 Ultra Wideband (UWB) communications are poised to enable short-range applications, such as remote health monitoring (e-health) and home or office automation. Sensor networks are also suitable candidates for UWB since the low radiated power of the UWB transmitter enables low DC power consumption, yielding long battery life and the possibility to use energy scavenging. Size and cost constraints require a low-complexity approach that allows multiple users to share the same RF bandwidth, and offers robustness to interference, frequency-selective multipath and antenna mismatch. Wideband FM Techniques for Low-Power Wireless Communications presents research and applications that have taken place in UWB Communications over the past years. This book is being published posthumously in agreement with the authors' former colleagues from both the Swiss Center for Electronics and Microtechnology (CSEM) and Delft University of Technology in The Netherlands.

Short-Range Wireless Communications Rolf Kraemer,Marcos Katz,2009-02-05 This unique book reviews the future developments of short-range wireless communication technologies Short-Range Wireless Communications: Emerging Technologies and Applications summarizes the outcomes of WWRF Working Group 5, highlighting the latest research results and emerging trends on short-range communications. It contains contributions from leading research groups in academia and industry on future short-range wireless communication systems, in particular 60 GHz communications, ultra-wide band (UWB) communications, UWB radio over optical fiber, and design rules for future cooperative short-range communications systems. Starting from a brief description of state-of-the-art, the authors highlight the perspectives and limits of the technologies and identify where future research work is going to be focused. Key Features: Provides an in-depth coverage of wireless technologies that are about to start an evolution from international standards to mass products, and that will influence the future of short-range communications Offers a unique and invaluable visionary overview from both industry and academia Identifies open research problems, technological challenges, emerging technologies, and fundamental limits Covers ultra-high speed short-range communication in the 60 GHz band, UWB communication, limits and challenges, cooperative aspects in short-range communication and visible light communications, and UWB radio over optical fiber This book will be of interest to research managers, R&D engineers, lecturers and graduate students within the wireless communication research community. Executive managers and communication engineers will also find this reference useful.

WIRELESS COMMUNICATION Narayan Changder,2024-02-28 Connect your wireless world with precision using this comprehensive MCQ mastery guide on wireless communication. Tailored for students, engineers, and enthusiasts, this resource offers a curated selection of practice questions covering key concepts, protocols, and technologies in wireless communication systems. Delve deep into modulation schemes, multiple access techniques, and network architectures while enhancing your problem-solving skills. Whether you're preparing for exams or seeking to reinforce your practical knowledge, this guide equips you with the tools needed to excel. Master wireless communication and navigate the ever-evolving landscape of wireless technology with confidence using this indispensable resource.

RF CMOS Oscillators for Modern Wireless Applications Masoud Babaie,Mina Shahmohammadi,Robert Bogdan Staszewski,2022-09-01 While mobile phones enjoy the largest production volume ever of any consumer electronics products, the demands they place on radio-frequency (RF) transceivers are particularly aggressive, especially on integration with digital processors, low area, low power consumption, while being robust against process-voltage-temperature variations. Since mobile terminals inherently operate on batteries, their power budget is severely constrained. To keep up with the ever increasing data-rate, an ever-decreasing power per bit is required to maintain the battery lifetime. The RF oscillator is the second most power-hungry block of a wireless radio (after power amplifiers). Consequently, any power reduction in an RF oscillator will greatly benefit the overall power efficiency of the cellular transceiver. Moreover, the RF oscillators' purity limits the transceiver performance. The oscillator's phase noise results in power leakage into adjacent channels in a transmit mode and reciprocal mixing in a receive mode. On the other hand, the multi-standard and multi-band transceivers that are now trending demand wide tuning range oscillators. However, broadening the oscillator's tuning range is usually at the expense of die area (cost) or phase noise. The main goal of this book is to bring forth the exciting and innovative RF oscillator structures that demonstrate better phase noise performance, lower cost, and higher power efficiency than currently achievable. Technical topics discussed in RF CMOS Oscillators for Modern Wireless Applications include: Design and analysis of low phase-noise class-F oscillators Analyze a technique to reduce 1/f noise up-conversion in the oscillators Design and analysis of low power/low voltage oscillators Wide tuning range oscillators Reliability study of RF oscillators in nanoscale CMOS

Mobile Peer to Peer (P2P) Frank H. P. Fitzek,Hassan Charaf,2009-06-15 Explore the potential of mobile P2P networks Mobile Peer to Peer (P2P): A Tutorial Guide discusses the potential of wireless communication among mobile devices forming mobile peer to peer networks. This book provides the basic programming skills required to set up wireless communication links between mobile devices, offering a guide to the development process of mobile peer to peer networks. Divided into three sections, Part I briefly introduces the basics of wireless technologies, mobile architectures, and communication protocols. Detailed descriptions of Bluetooth,

IEEE802.11, and cellular communication link are given and applied to potential communication architectures. Part II focuses on programming for individual wireless technologies, and gives an understanding of the programming environment for individual wireless technologies. In addition, Part III provides advanced examples for mobile peer to peer networks. Introduces the basics of short-range/wireless technologies (such as Bluetooth and IEEE 802.11 Wireless LAN), mobile architectures, and communication protocols Explains the basic programming environment and the basic wireless communication technologies such as Bluetooth, WiFi (IEEE802.11), and cellular communication examples Discusses the advancements in meshed networks, mobile social networks and cooperative networks Provides detailed examples of mobile peer to peer communication including, social mobile networking, cooperative wireless networking, network coding, and mobile gaming Includes an accompanying website containing programming examples as source code Mobile Peer to Peer (P2P): A Tutorial Guideis an invaluable reference for advanced students on wireless/mobile communications courses, and researchers in various areas of mobile communications (mashups, social mobile networks, network coding, etc.) Undergraduate students and practitioners wishing to learn how to build mobile peer to peer networks will also find this book of interest.

Coexistence in Wireless Networks Nada Golmie,2006-09-14 The increasing popularity of wireless networks makes interference and cross-talk between multiple systems inevitable. This book describes techniques for quantifying this, and the effects on the performance of wireless networks operating in the unlicensed bands. It also presents a variety of system-level solutions, obviating the need for new hardware implementations. The book starts with basic concepts and wireless protocols before moving on to interference performance evaluation, interference modeling, coexistence solutions, and concluding with common misconceptions and pitfalls. The theory is illustrated by reference to real-world systems such as Bluetooth and WiFi. With a number of case studies and many illustrations, this book will be of interest to graduate students in electrical engineering and computer science, to practitioners designing new WLAN and WPAN systems or developing new techniques for interference supression, and to general users of merging wireless technologies.

F02G manual ,2015-02-03 F02G manual

Power Aware Design Methodologies Massoud Pedram,Jan M. Rabaey,2007-05-08 Power Aware Design Methodologies was conceived as an effort to bring all aspects of power-aware design methodologies together in a single document. It covers several layers of the design hierarchy from technology, circuit logic, and architectural levels up to the system layer. It includes discussion of techniques and methodologies for improving the power efficiency of CMOS circuits (digital and analog), systems on chip, microelectronic systems, wirelessly networked systems of computational nodes and so on. In addition to providing an in-depth analysis of the sources of power dissipation in VLSI circuits and systems and the technology and design trends, this book provides a myriad of state-of-the-art approaches to power optimization and control. The different chapters of Power Aware Design Methodologies have been written by leading researchers and experts in their respective areas. Contributions are from both academia and industry. The contributors have reported the various technologies, methodologies, and techniques in such a way that they are understandable and useful.

Mac OS X Power Tools Dan Frakes,2006-02-20 Dan Frakes' Mac OS X Power Tools is an essential (and approachable) guide for getting the most from Mac OS X. –Christopher Breen, Mac 911 Columnist, MacWorld Magazine Mac Expert Dan Frakes' Turns You Into a Power User The latest version of Mac OS X (v10.3, Panther) is here, and noted expert Dan Frakes has once again worked day and night to discover and document the best ways for Mac users of all levels of experience to get things done. This completely revised and updated second edition of Mac OS X Power Tools provides tips, shortcuts, and step-by-step solutions to equip you with the most essential insights and knowledge. With this book at your side and your Mac in front of you, you'll understand Mac OS X like never before, saving time, avoiding headaches, and transforming OS X into one very productive cat. Coverage includes: Understanding user accounts and permissions Taking control of the startup and login processes Embracing and extending Finder functionality Using the Dock and Dock replacements Working with applications Streamlining Mac OS and third-party installations Making the most of Classic Improving Web surfing and network connectivity Sharing files and connecting to servers Taking advantage of OS X's advanced printing architecture Strengthening system security Keeping Mac OS X in tip-top shape Controlling your Mac remotely Taking advantage of OS X's Unix base Visit the author's website at www.macosxpowertools.com/

Wireless Technologies Krzysztof Iniewski,2017-12-19 Advanced concepts for wireless technologies present a vision of technology that is embedded in our surroundings and practically invisible. From established radio techniques like GSM, 802.11 or Bluetooth to more emerging technologies, such as Ultra Wide Band and smart dust motes, a common denominator for future progress is the underlying integrated circuit technology. Wireless Technologies responds to the explosive growth of standard cellular radios and radically different wireless applications by presenting new architectural and circuit solutions engineers can use to solve modern design problems. This reference addresses state-of-the art CMOS design in the context of emerging wireless applications, including 3G/4G cellular telephony, wireless sensor networks, and wireless medical application. Written by top

international experts specializing in both the IC industry and academia, this carefully edited work uncovers new design opportunities in body area networks, medical implants, satellite communications, automobile radar detection, and wearable electronics. The book is divided into three sections: wireless system perspectives, chip architecture and implementation issues, and devices and technologies used to fabricate wireless integrated circuits. Contributors address key issues in the development of future silicon-based systems, such as scale of integration, ultra-low power dissipation, and the integration of heterogeneous circuit design style and processes onto one substrate. Wireless sensor network systems are now being applied in critical applications in commerce, healthcare, and security. This reference, which contains 25 practical and scientifically rigorous articles, provides the knowledge communications engineers need to design innovative methodologies at the circuit and system level.

Bluetooth 1.1 Jennifer Bray,Charles F. Sturman,2001-12-17 The authoritative, in-depth guide to the new Bluetooth 1.1 specification Bluetooth 1.1's dramatic improvements in interoperability and reliability Includes thoroughly revised coverage of Bluetooth security and power conservation New Bluetooth profiles–including the long-awaited Personal Area Networking profile! The first complete guide to the new Bluetooth 1.1 wireless specification! The Bluetooth specification has been updated to deliver dramatic improvements in both reliability and interoperability. Bluetooth 1.1: Connect Without Cables, Second Edition updates the industry's #1 Bluetooth guide to cover these critical new enhancements–and to offer detailed guidance on every aspect of Bluetooth 1.1 development. Bluetooth SIG committee members Jennifer Bray and Charles Sturman place Bluetooth 1.1 in context, covering markets, applications, complementary technologies, key development issues, and explaining every goal of the new release. They review the components of a Bluetooth system, explain how Bluetooth connections work, introduce essential concepts such as piconets and scatternets, and cover the Bluetooth protocol stack in detail from top to bottom. Interoperability between 1.0b and 1.1 Details of 1.1 improvements with explanations of the reasons behind each change Important changes to Bluetooth low-power modes, encryption, and authentication Bridging Ethernet and Bluetooth with Bluetooth Network Encapsulation Protocol How to use Universal Plug and Play with the Bluetooth protocol stack Profiles which will bring new products including: Human Interface Devices, Hands-Free Phone usage, Basic Printing, Basic Imaging, and Hard Copy Cable Replacement Technologies used by Bluetooth: OBEX, WAP, GSM TS07.10, UPnP, Q.931, and UUIDs Comparison of related technologies: DECT, IrDA, Home RF, HiperLAN, and 802.11 Whether you're experienced with V.1.0 or working with Bluetooth for the first time, Bluetooth 1.1: Connect Without Cables, Second Edition is your definitive resource for building interoperable, reliable wireless applications–right now!

FM-UWB Transceivers for Autonomous Wireless Systems Nitz Saputra,John R. Long,2022-09-01 Significant research effort has been devoted to the study and realization of autonomous wireless systems for wireless sensor and personal-area networking, the internet of things, and machine-to-machine communications. Low-power RF integrated circuits, an energy harvester and a power management circuit are fundamental elements of these systems. An FM-UWB Transceiver for Autonomous Wireless Systems presents state-of-the-art developments in low-power FM-UWB transceiver realizations. The design, performance and implementation of prototype transceivers in CMOS technology are presented. A working hardware realization of an autonomous node that includes a prototype power management circuit is also proposed and detailed in this book.Technical topics include: Low-complexity FM-UWB modulation schemesLow-power FM-UWB transceiver prototypes in CMOS technologyCMOS on-chip digital calibration techniquesSolar power harvester and power management in CMOS for low-power RF circuitsAn FM-UWB Transceiver for Autonomous Wireless Systems is an ideal text and reference for engineers working in wireless communication industries, as well as academic staff and graduate students engaged in electrical engineering and communication systems research.

Embracing Interference in Wireless Systems Shyamnath Gollakota,2014-06-01 The wireless medium is a shared resource. If nearby devices transmit at the same time, their signals interfere, resulting in a collision. In traditional networks, collisions cause the loss of the transmitted information. For this reason, wireless networks have been designed with the assumption that interference is intrinsically harmful and must be avoided. This book, a revised version of the author's award-winning Ph.D. dissertation, takes an alternate approach: Instead of viewing interference as an inherently counterproductive phenomenon that should to be avoided, we design practical systems that transform interference into a harmless, and even a beneficial phenomenon. To achieve this goal, we consider how wireless signals interact when they interfere, and use this understanding in our system designs. Specifically, when interference occurs, the signals get mixed on the wireless medium. By understanding the parameters of this mixing, we can invert the mixing and decode the interfered packets; thus, making interference harmless. Furthermore, we can control this mixing process to create strategic interference that allow decodability at a particular receiver of interest, but prevent decodability at unintended receivers and adversaries. Hence, we can transform interference into a beneficial phenomenon that provides security. Building on this approach, we make four main contributions: We present the first WiFi receiver that can successfully reconstruct the transmitted information in the presence of packet collisions. Next, we introduce a WiFi receiver design that can decode in the presence of high-power cross-technology interference from devices like baby monitors, cordless phones, microwave ovens, or even unknown technologies. We then show how we can harness interference to improve security. In particular, we develop the first system that secures an insecure medical

implant without any modification to the implant itself. Finally, we present a solution that establishes secure connections between any two WiFi devices, without having users enter passwords or use pre-shared secret keys.

Wireless Ad hoc and Sensor Networks Jagannathan Sarangapani,2017-12-19 With modern communication networks continuing to grow in traffic, size, complexity, and variety, control systems are critical to ensure quality and effectively manage network traffic. Providing a thorough and authoritative introduction, Wireless Ad hoc and Sensor Networks: Protocols, Performance, and Control examines the theory, architectures, and technologies needed to implement quality of service (QoS) in a wide variety of communication networks. Based on years of research and practical experience, this book examines the technical concepts underlying the design, implementation, research, and invention of both wired and wireless networks. The author builds a strong understanding of general concepts and common principles while also exploring issues that are specific to wired, cellular, wireless ad hoc, and sensor networks. Beginning with an overview of networks and QoS control, he systematically explores timely areas such as Lyapunov analysis, congestion control of high-speed networks, admission control based on hybrid system theory, distributed power control of various network types, link state routing using QoS parameters, and predictive congestion control. The book also provides a framework for implementing QoS control using mote hardware. Providing a deeply detailed yet conveniently practical guide to QoS implementation, Wireless Ad hoc and Sensor Networks: Protocols, Performance, and Control is the perfect introduction for anyone new to the field as well as an ideal reference guide for seasoned network practitioners.

Practical Digital Wireless Signals Earl McCune,2010-02-04 Do you need to know what signal type to select for a wireless application? Quickly develop a useful expertise in digital modulation with this practical guide, based on the author's experience of over thirty years in industrial design. You will understand the physical meaning behind the mathematics of wireless signals and learn the intricacies and tradeoffs in signal selection and design. Six modulation families and twelve modulation types are covered in depth, together with a quantitative ranking of relative cost incurred to implement any of twelve modulation types. Extensive discussions of the Shannon Limit, Nyquist filtering, efficiency measures and signal-to-noise measures are provided, radio wave propagation and antennas, multiple access techniques, and signal coding principles are all covered, and spread spectrum and wireless system operation requirements are presented.

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