

INTEGRATED CIRCUITS AND SYSTEMS

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Peter Kinget
Editors

Ultra Wideband

Circuits, Transceivers and Systems

 Springer

Ultra Wideband Circuits Transceivers And Systems Integrated Circuits And Systems

Vladimir Kopta,Christian Enz



Ultra Wideband Circuits Transceivers And Systems Integrated Circuits And Systems:

Ultra Wideband Ranjit Gharpurey, Peter Kinget, 2008-03-06 Recent advances in wireless communication technologies have had a transformative impact on society and have directly contributed to several economic and social aspects of daily life. Increasingly, the untethered exchange of information between devices is becoming a prime requirement for further progress, which is placing an ever greater demand on wireless bandwidth. The ultra wideband UWB system marks a major milestone in this progress. Since 2002, when the FCC allowed the unlicensed use of low power UWB radio signals in the 3.1-10.6 GHz frequency band, there has been significant synergistic advance in this technology at the circuits, architectural, and communication systems levels. This technology allows for devices to communicate wirelessly while coexisting with other users by ensuring that its power density is sufficiently low so that it is perceived as noise to other users. UWB is expected to address existing needs for high data rate short range communication applications between devices such as computers and peripherals or consumer electronic devices. In the long term, it makes available spectrum to experiment with new signaling formats such as those based on very short pulses of radio frequency RF energy. As such, it represents an opportunity to design fundamentally different wireless systems which rely on the bandwidth of the signals to enhance the data rate or which use the available bandwidth for diverse applications such as ranging and biomedical instrumentation.

Ultra Wideband Ranjit Gharpurey, Peter Kinget, 2008-11-01 This book is a compilation of chapters on various aspects of Ultra Wideband. The book includes chapters on Ultra Wideband transceiver implementations, pulse based systems, and one on the implementation for the WiMedia MBOFDM approach. Another chapter discusses the implementation of the physical layer baseband, including the ADC and post ADC processing required in the UWB system. Future advances such as multi-antenna UWB solutions are also discussed.

Ultra-Low Power FM-UWB Transceivers for IoT Vladimir Kopta, Christian Enz, 2022-09-01 Over the past two decades, we have witnessed the increasing popularity of the Internet of Things. The vision of billions of connected objects able to interact with their environment is the key driver directing the development of future communication devices. Today, power consumption, as well as the cost and size of radios, remain some of the key obstacles towards fulfilling this vision. **Ultra Low Power FM UWB Transceivers for IoT** presents the latest developments in the field of low power wireless communication. It promotes the FM UWB modulation scheme as a candidate for short range communication in different IoT scenarios. The FM UWB has the potential to provide exactly what is missing today. This spread spectrum technique enables significant reduction in transceiver complexity, making it smaller, cheaper, and more energy efficient than most alternative options. The book provides an overview of both circuit level and architectural techniques used in low power radio design, with a comprehensive study of state-of-the-art examples. It summarizes key theoretical aspects of FM UWB with a glimpse at potential future research directions. Finally, it gives an insight into a full FM UWB transceiver design, from system level specifications down to transistor level design, demonstrating the modern power reduction circuit techniques. **Ultra Low Power FM UWB Transceivers**

for IoT is a perfect text and reference for engineers working in RF IC design and wireless communication as well as academic staff and graduate students engaged in low power communication systems research

Ultra-wideband RF System Engineering Thomas Zwick, Werner Wiesbeck, Jens Timmermann, Grzegorz Adamiuk, 2013-10-03 This comprehensive summary of the state of the art in Ultra Wideband UWB system engineering takes you through all aspects of UWB design from components through the propagation channel to system engineering aspects Mathematical tools and basics are covered allowing for a complete characterisation and description of the UWB scenario in both the time and the frequency domains UWB MMICs antennas antenna arrays and filters are described as well as quality measurement parameters and design methods for specific applications The UWB propagation channel is discussed including a complete mathematical description together with modeling tools A system analysis is offered addressing both radio and radar systems and techniques for optimization and calibration Finally an overview of future applications of UWB technology is presented Ideal for scientists as well as RF system and component engineers working in short range wireless technologies

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 schemes Low power FM UWB transceiver prototypes in CMOS technology CMOS on chip digital calibration techniques Solar power harvester and power management in CMOS for low power RF circuits An 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

Ultra-wideband Positioning Systems Zafer Sahinoglu, Sinan Gezici, Ismail Güvenc, 2008-09-04 Position estimation of wireless devices has many applications in short range networks Ultra wideband UWB signals provide accurate positioning capabilities that can be harnessed in wireless systems to realise these applications This text provides detailed coverage of UWB positioning systems offering comprehensive treatment of signal and receiver design for ranging range estimation techniques theoretical performance bounds ranging algorithms and protocols Beginning with a discussion of the potential applications of wireless positioning and investigating UWB signals for such applications later chapters establish a signal processing framework for analysing UWB positioning and ranging systems The recent IEEE 802 15 4a standard related to UWB is also studied in detail Each chapter contains examples problems and Matlab scripts to

help readers grasp key concepts This is an ideal text for graduate students and researchers in electrical and computer engineering and practitioners in the communications industry particularly those in wireless communications Further resources are available at www.cambridge.org/9780521873093 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 FM-UWB Transceivers for Autonomous Wireless Systems Nitz Saputra,John R. Long,2017-02-15 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 schemes Low power FM UWB transceiver prototypes in CMOS technology CMOS on chip digital calibration techniques Solar power harvester and power management in CMOS for low power RF circuits An 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 **VLSI Circuits and Systems** ,2005 **Radioengineering** ,2008 **IEICE**

Transactions on Electronics ,2005 **Ultra-Wideband Transceiver Circuits and Systems** Sumit Bagga,Wouter A. Serdijn,John R. Long,2015-04 Wideband radio technology is not a new concept in the field of RF technology Decades of research in the area of wideband systems has lead us to new possibilities in the design of low power low complexity radios Ultra wideband is a direct offspring which takes the initiative a step further by presenting novel wideband techniques for RF technology The US FCC position on UWB for commercial usage changed after agreeing to adopt the First Report and Order on February 14 2002 Unlicensing several gigahertz of frequency spectrum allowed companies to manufacture and market products incorporating UWB technology At a certain moment the potential benefits of UWB were outweighed when existing wireless narrowband regulators perceived UWB as a disruptive influence This however did not stop most countries from accommodating and recognizing the true nature of UWB In brief the authors have only scratched the surface when it comes to understanding the true potential of UWB technology The development stage is in its infancy and will necessitate a substantial amount of research to meet industrial specifications Short range communications low power and low moderate data rate throughput are the most attractive aspects and promises of UWB technology For this very reason applications such as wireless sensor networks WSN are most noticeable A Pulse-based Ultra-wideband Transmitter in CMOS for Wireless Personal Area Networks Murat Demirkan,2008 **Microwave Journal** ,2008 **Silicon-Based RF Front-Ends for Ultra Wideband Radios** Aminghasem Safarian,Payam Heydari,2007-12-28 A comprehensive study of silicon based distributed architectures in wideband circuits are presented in this book Novel circuit architectures for ultra wideband UWB wireless technologies are described The book begins with an introduction of several transceiver architectures for UWB The discussion then focuses on RF front end of the UWB radio Therefore the book will be of interest to RF circuit designers and students

Smart Structures, Devices, and Systems ,2004 Nanoelectronic Mixed-Signal System Design Saraju Mohanty,2015-02-20 Covering both the classical and emerging nanoelectronic technologies being used in mixed signal design this book addresses digital analog and memory components Winner of the Association of American Publishers 2016 PROSE Award in the Textbook Physical Sciences Mathematics category Nanoelectronic Mixed Signal System Design offers professionals and students a unified perspective on the science engineering and technology behind nanoelectronics system design Written by the director of the NanoSystem Design Laboratory at the University of North Texas this comprehensive guide provides a large scale picture of the design and manufacturing aspects of nanoelectronic based systems It features dual coverage of mixed signal circuit and system design rather than just digital or analog only Key topics such as process variations power dissipation and security aspects of electronic system design are discussed Top down analysis of all stages from design to manufacturing Coverage of current and developing nanoelectronic technologies not just nano CMOS Describes the basics of nanoelectronic technology and the structure of popular electronic systems Reveals the techniques required for design excellence and manufacturability *IEEE Transactions on Circuits and Systems* ,2006 *Dissertation*

Abstracts International, 2009 Integrated Circuits for Wireless Communications Asad A. Abidi, Paul R. Gray, Robert G. Meyer, 1998-12-24 Electrical Engineering Integrated Circuits for Wireless Communications High frequency integrated circuit design is a booming area of growth that is driven not only by the expanding capabilities of underlying circuit technologies like CMOS but also by the dramatic increase in wireless communications products that depend on them Integrated Circuits for Wireless Communications includes seminal and classic papers in the field and is the first all in one resource to address this increasingly important topic Internationally known and highly regarded in the field editors Asad Abidi Paul Gray and Robert G Meyer have meticulously compiled more than 100 papers and articles covering the very latest high level integrated circuits techniques and solutions in use today Integrated Circuits for Wireless Communications is devised expressly to provide IC design engineers system architects and integrators with a practical understanding of subjects ranging from architecture choices for integrated transceivers to actual circuit designs in all viable IC technologies such as bipolar CMOS and GaAs The papers selected represent a breadth of coverage and level of expertise that is simply unmatched in the field Topics covered include Radio architectures Receivers Transmitters and transceivers Power amplifiers and RF switches Oscillators Passive components Systems applications

Unveiling the Magic of Words: A Review of "**Ultra Wideband Circuits Transceivers And Systems Integrated Circuits And Systems**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Ultra Wideband Circuits Transceivers And Systems Integrated Circuits And Systems**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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