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Editors

Ultra Wideband

Circuits, Transceivers and Systems

Ultra Wideband Circuits Transceivers And Systems Integrated Circuits And Systems

Woogeun Rhee



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

Radio Frequency Integrated Circuits and Technologies Frank Ellinger, 2008-09-11 In the last decade wireless communications engineering has seen outstanding progress making merged enhanced and novel applications in the area of mobile phones wireless networks sensors and television feasible Technologies have developed from hybrid systems to highly integrated solutions in silicon SiGe GaAs and InP By aggressive scaling of device dimensions below 0.1 μm and employing advanced technologies such as SOI strained silicon and low k circuits with operation frequencies and bandwidths up to approximately 100 GHz can now be fabricated However especially in silicon the restrictions inherent in scaling make circuit engineering a demanding task Examples of these drawbacks are the limited high frequency signal power leakage effects and significant parasitics in passive devices Enhanced circuit topologies and design techniques have to be applied to achieve maximum performance In this context designers must have profound skills in the following areas circuit theory IC technologies communications standards system design measurement techniques etc The aim of this book is to address all these multidisciplinary issues in a compact and comprehensive form and in a single volume Suitable for students engineers and scientists the manuscript provides the necessary theoretical background together with cookbook like optimisation strategies and state of the art design examples Each chapter is accompanied by tutorial questions repeating the key issues of the treated subjects The manuscript is organised as follows Chapter 1 preludes with an introduction concerned with the exciting history of integrated circuits technologies and wireless communications

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 Communications Mohammad Abdul Matin, 2011-07-27 This book has addressed few challenges to ensure the success of UWB technologies and covers several research areas including UWB low cost transceiver low noise amplifier LNA ADC architectures UWB filter and high power UWB amplifiers It is believed that this book serves as a comprehensive reference for graduate students in UWB technologies

Design of Ultra-Low Power Impulse Radios Alyssa Apsel, Xiao Wang, Rajeev Dokania, 2013-10-29 This book covers the fundamental principles behind the design of ultra low power radios and how they can form networks to facilitate a variety of applications within healthcare and environmental monitoring since they may operate for years off a small battery or even harvest energy from the environment These radios are distinct from conventional radios in that they must operate with very constrained resources and low overhead This book provides a thorough discussion of the challenges associated with designing radios with such constrained resources as well as fundamental design concepts and practical approaches to implementing working designs Coverage includes integrated circuit design timing and control considerations fundamental theory behind low power and time domain operation and network communication protocol considerations

Ultra-Low Power Integrated Circuit Design Nianxiong Nick Tan, Dongmei Li, Zhihua Wang, 2013-10-23 This book describes the design of CMOS circuits for ultra low power consumption including analog radio frequency RF and digital signal processing circuits DSP The book addresses issues from circuit and system design to production design and applies the ultra low power circuits described to systems for digital hearing aids and capsule endoscope devices Provides a valuable introduction to ultra low power circuit design aimed at practicing design engineers Describes all key building blocks of ultra low power circuits from a systems perspective Applies circuits and systems described to real product examples such as hearing aids and capsule endoscopes

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

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

Ultra-Wideband and 60 GHz Communications for Biomedical Applications Mehmet R. Yuce, 2013-10-16 This book investigates the design of devices systems and circuits for medical applications using the two recently established frequency bands ultra wideband 3.1-10.6 GHz and 60 GHz ISM band These two bands provide the largest bandwidths available for communication technologies and present many attractive opportunities for medical applications The applications of these bands in healthcare are wireless body area network WBAN medical imaging biomedical sensing wearable and implantable devices fast medical device connectivity video data transmission and vital signs monitoring The recent technological advances and developments proposed or used in medicine based on these two bands are covered The book introduces possible solutions and design techniques to efficiently implement these systems in medical environment All individual chapters are written by leading experts in their fields Contributions by authors are on various applications of ultra wideband and the 60 GHz ISM band including circuit implementation UWB and 60 GHz signal transmission around and

in body antenna design solution hardware implementation of body sensors UWB transceiver design 60 GHz transceiver design UWB radar for contactless respiratory monitoring and ultra wideband based medical Imaging The book will be a key resource for medical professionals bio medical engineers and graduate and senior undergraduate students in computer electrical electronic and biomedical engineering disciplines

Official Gazette of the United States Patent and Trademark Office, 2005 *Ultra Wideband* Boris Lembrikov, 2010-09-17 Ultra wideband technology is one of the most promising directions in the rapidly developing modern communications Ultra wideband communication system applications include radars wireless personal area networks sensor networks imaging systems and high precision positioning systems Ultra wideband transmission is characterized by high data rate availability of low cost transceivers low transmit power and low interference The proposed book consisting of 19 chapters presents both the state of the art and the latest achievements in ultra wideband communication system performance design and components The book is addressed to engineers and researchers who are interested in the wide range of topics related to ultra wideband communications

Wireless Transceiver Circuits Woogeun Rhee, 2018-09-03 Modern transceiver systems require diversified design aspects as various radio and sensor applications have emerged Choosing the right architecture and understanding interference and linearity issues are important for multi standard cellular transceivers and software defined radios A millimeter wave complementary metal oxide semiconductor CMOS transceiver design for multi Gb/s data transmission is another challenging area Energy efficient short range radios for body area networks and sensor networks have recently received great attention To meet different design requirements gaining good system perspectives is important Wireless Transceiver Circuits System Perspectives and Design Aspects offers an in depth look at integrated circuit IC design for modern transceiver circuits and wireless systems Ranging in scope from system perspectives to practical circuit design for emerging wireless applications this cutting edge book Provides system design considerations in modern transceiver design Covers both systems and circuits for the millimeter wave transceiver design Introduces four energy efficient short range radios for biomedical and wireless connectivity applications Emphasizes key building blocks in modern transceivers and transmitters including frequency synthesizers and digital intensive phase modulators Featuring contributions from renowned international experts in industry and academia Wireless Transceiver Circuits System Perspectives and Design Aspects makes an ideal reference for engineers and researchers in the area of wireless systems and circuits

mm-Wave Silicon Technology Ali M. Niknejad, Hossein Hashemi, 2008-01-03 This book compiles and presents the research results from the past five years in mm wave Silicon circuits This area has received a great deal of interest from the research community including several university and research groups The book covers device modeling circuit building blocks phased array systems and antennas and packaging It focuses on the techniques that uniquely take advantage of the scale and integration offered by silicon based technologies

Adaptive Techniques for Dynamic Processor Optimization Alice Wang, Samuel Naffziger, 2008-07-23 The integrated circuit

has evolved tremendously in recent years as Moore's Law has enabled exponentially more devices and functionality to be packed onto a single piece of silicon. In some ways, however, these highly integrated circuits of which microprocessors are the flagship example have become victims of their own success. Despite dramatic reductions in the switching energy of the transistors, these reductions have kept pace neither with the increased integration levels nor with the higher switching frequencies. In addition, the atomic dimensions being utilized by these highly integrated processors have given rise to much higher levels of random and systematic variation which undercut the gains from process scaling that would otherwise be realized. So these factors, the increasing impact of variation and the struggle to control power consumption, have given rise to a tremendous amount of innovation in the area of adaptive techniques for dynamic processor optimization. The fundamental premise behind adaptive processor design is the recognition that variations in manufacturing and environment cause a statically configured operating point to be far too inefficient. Inefficient designs waste power and performance and will quickly be surpassed by more adaptive designs just as it happens in the biological realm. Organisms must adapt to survive and a similar trend is seen with processors: those that are enabled to adapt to their environment will be far more competitive.

Built-in-Self-Test and Digital Self-Calibration for RF SoCs Sleiman Bou-Sleiman, Mohammed Ismail, 2011-09-23. This book will introduce design methodologies known as Built in Self Test (BiST) and Built in Self Calibration (BiSC) which enhance the robustness of radio frequency (RF) and millimeter wave (mmWave) integrated circuits (ICs). These circuits are used in current and emerging communication, computing, multimedia, and biomedical products and microchips. The design methodologies presented will result in enhancing the yield percentage of working chips in a high volume run of RF and mmWave ICs which will enable successful manufacturing of such microchips in high volume.

Analog Circuit Design Arthur H.M. van Roermund, Herman Casier, Michiel Steyaert, 2006-12-18. Analog Circuit Design contains in total 18 tutorials. They reflect the contributions of 6 experts in each of the three fields covered by the three chapters mentioned in the subtitle as presented at the 15th workshop on Advances in Analog Circuit Design (AACD) held in Maastricht April 2006. This book is number 15 in this successful series of Analog Circuit Design providing valuable information and excellent overviews of analog circuit design and related CAD mainly in the fields of basic analog modules, mixed signal electronics, AD and DA converters, RF systems, and automotive electronics. Analog Circuit Design is an essential reference source for analog circuit designers and researchers wishing to keep abreast with the latest developments in the field. The tutorial coverage also makes it suitable for use in an advanced design course.

Wafer Level 3-D ICs Process Technology Chuan Seng Tan, Ronald J. Gutmann, L. Rafael Reif, 2009-06-29. Three dimensional (3D) integration is clearly the simplest answer to most of the semiconductor industry's vexing problems: heterogeneous integration and reductions of power, form factor, delay, and even cost. Conceptually, the power, latency, and form factor of a system with a fixed number of transistors all scale roughly linearly with the diameter of the smallest sphere enclosing frequently interacting devices. This clearly provides the fundamental motivation behind 3D

technologies which vertically stack several strata of device and interconnect layers with high vertical interconnectivity. In addition, the ability to vertically stack strata with divergent and even incompatible process flows provides for low cost and low parasitic integration of diverse technologies such as sensors, energy scavengers, nonvolatile memory, dense memory, fast memory, processors, and RF layers. These capabilities coupled with today's trends of increasing levels of integrated functionality, lower power, smaller form factor, increasingly divergent process flows, and functional diversification would seem to make 3D technologies a natural choice for most of the semiconductor industry. Since the concept of vertical integration of different strata has been around for over 20 years, why aren't vertically stacked strata endemic to the semiconductor industry? The simple answer to this question is that in the past the 3D advantages, while interesting, were not necessary due to the tremendous opportunities offered by geometric scaling. In addition, even when the global interconnect problem of high performance, single core processors seemed insurmountable, without innovations such as 3D alternative architectural solutions such as multicores could effectively delay but not eliminate the need for 3D.

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