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Ultra-Low Input Power Conversion Circuits based on Tunnel-FETs

Trafford Publishing

Advances in Engineering Materials, Structures and Systems:

Innovations, Mechanics and Applications comprises 411 papers that were presented at SEMC 2019, the Seventh International Conference on Structural Engineering, Mechanics and Computation, held in Cape Town, South Africa, from 2 to 4 September 2019. The subject matter reflects the broad scope of SEMC conferences, and covers a wide variety of engineering materials (both traditional and innovative) and many types of structures. The many topics featured in these Proceedings can be classified into six broad categories that deal with: (i) the mechanics of materials and fluids (elasticity, plasticity, flow through porous media, fluid dynamics, fracture, fatigue, damage, delamination, corrosion, bond, creep, shrinkage, etc); (ii) the mechanics of structures and systems (structural dynamics, vibration, seismic response, soil-structure interaction, fluid-structure interaction, response to blast and impact, response to fire, structural stability, buckling, collapse behaviour); (iii) the numerical modelling and experimental testing of materials and structures (numerical methods, simulation techniques, multi-scale modelling, computational modelling, laboratory testing, field testing, experimental measurements); (iv) innovations and special structures (nanostructures, adaptive structures, smart structures, composite structures, bio-inspired structures, shell structures, membranes, space structures, lightweight structures, long-span structures, tall buildings, wind turbines, etc); (v) design in traditional engineering materials (steel, concrete, steel-concrete composite, aluminium, masonry, timber, glass); (vi) the process of structural engineering (conceptualisation, planning, analysis, design, optimization, construction, assembly, manufacture, testing, maintenance, monitoring, assessment, repair, strengthening, retrofitting, decommissioning). The SEMC 2019 Proceedings will be of interest to civil, structural, mechanical, marine and aerospace engineers. Researchers, developers, practitioners and academics in these disciplines will find them useful. Two versions of the papers are available. Short versions, intended to be concise but self-contained summaries of the full papers, are in this printed book. The full versions of the papers are in the e-book.

Great Body No Diet Springer Science & Business Media

To do what no other magazine does: Deliver simple, delicious food, plus expert health and lifestyle information, that's exclusively vegetarian but wrapped in a fresh, stylish mainstream package that's inviting to all. Because while vegetarians are a great, vital, passionate niche, their healthy way of eating and the earth-friendly values it inspires appeals to an increasingly large group of Americans. VT's goal: To embrace both.

The Electrical Journal CRC Press

This book presents selected papers from the fourth edition of the GraphX conference series, GraphITA 2015. Its content range from fundamentals to applications of graphene and other 2D material such as silicene, BN and MoS₂. The newest technological challenges in the field are described in this book, written by worldwide known scientists working with 2D materials. The chapter 'Morphing Graphene-Based Systems for Applications: Perspectives from Simulations' is published open access under a CC BY 4.0 license.

The Electrician Springer Science & Business Media

Ultra-low voltage large-scale integrated circuits (LSIs) in nano-scale technologies are needed both to meet the needs of a rapidly growing mobile cell phone market and to offset a significant increase in the power dissipation of high-end microprocessor units. The goal of this book is to provide a detailed explanation of the state-of-the-art nanometer and sub-1-V memory LSIs that are playing decisive roles in power conscious systems. Emerging problems between the device, circuit, and system levels are systematically discussed in terms of reliable high-speed operations of memory cells and peripheral logic circuits. The effectiveness of solutions at device and circuit levels is also described at length through clarifying noise components in an array, and even essential differences in ultra-low voltage operations between DRAMs and SRAMs.

Nature Springer Science & Business Media

Weight Solutions: The New Body-Mind-Spirit Approach brings important nutritional knowledge and a balanced eating plan that makes it simpler to lose weight in a healthy way and helps to maintain weight loss over the long term. Despite an emphasis on low-fat foods, we have a national epidemic of obesity and excess body fat. Why? The reader will learn how to balance the three essential food groups using simple formulas presented in Phase 1 (A Boost to Your Metabolism), Phase 2 (Sustaining Metabolism; Strengthening Willpower) and Phase 3 (Balancing Body, Mind, and Spirit and Nutrition for Life). What makes this weight loss book different than all the others on the market is the holistic perspective of Drs. Cunningham and Valentine. In addition to healthy eating and nutrition, the reader explores his or her memories and childhood programming through an in-depth discussion of the mental

and emotional aspects of weight loss and maintenance. And, a discussion of one's "spirit" is a part of this unique weight loss approach. THE OLD MODEL THE NEW BODY-MIND-SPIRIT MODEL Lose as much as you can, as fast as you can Knowledge & Illustrated Scientific News Academic Press

The papers published in this volume were presented at the Second International Conference on Ultra-Wideband/Short-Pulse (UWB/SP) Electromagnetics, April 5-7, 1994. To place this second international conference in proper perspective with respect to the first conference held during October 8-10, 1992, at Polytechnic University, some background information is necessary. As we had hoped, the first conference struck a responsive cord, both in timeliness and relevance, among the electromagnetic community. Participants at the first conference already inquired whether and when a follow-up meeting was under consideration. The first concrete proposal in this direction was made a few months after the first conference by Prof. A. Terzuoli of the Air Force Institute of Technology (AFIT), Dayton, Ohio, who has been a strong advocate of time-domain methods and technologies. He initially proposed a follow-up time-domain workshop under AFIT auspices. Realizing that interest in this subject is lodged also at other Air Force installations, we suggested to enlarge the scope, and received in this endeavor the support of Dr. A. Nachman of AFOSR (Air Force Office of Scientific Research), Bolling Air Force Base, Washington, D.C. Fundamental Research in Ultra High Dilution and Homoeopathy Springer

This book attempts to explain the scientific basis for UHT sterilization and aseptic filling, as well as describe the processes and equipment used. I have tried to avoid producing merely a catalogue of sterilizers and aseptic fillers. Instead I have attempted to explain the principles on which the different types of plant operate, and discuss the factors which influence performance, so that information given by manufacturers may be assessed by readers in relation to their own processing requirements. Statements are generally supported by references. Where no reference is given, personal experience or my interpretation of the work of others is my justification. Although the book deals mainly with milk and milk products, I hope that the information it contains will be useful to those dealing with other products, since the principles of processing are in general the same. The book is based on more than 30 years' involvement with research into UHT processing and aseptic filling. During this time I have been fortunate to work with and to talk to many people from whom I have learned a great deal. I benefited from contacts with Dr T. R. Ashton (England) and Professor H. Hostettler. (Switzerland), who were pioneers in the commercial development of UHT milk. More recently I have been privileged to know and work with research workers in many countries having a common interest in UHT processing. Of these, I should mention particularly Professors E. L. Thomas, V. A.

Knowledge and Illustrated Scientific News IOS Press

Ultra-Wideband Radio (UWB) earmarks a new radio access philosophy and exploits several GHz of bandwidth. It promises high data rate communication over short distances as well as innovative radar sensing and localization applications with unprecedented resolution. Fields of application may be found, among others, in industry, civil engineering, surveillance and exploration, for security and safety measures, and even for medicine. The book considers the basics and algorithms as well as hardware and application issues in the field of UWB radio technology for communications, localization and sensing based on the outcome of DFG's priority-funding program "Ultra-Wideband Radio Technologies for Communications, Localization and Sensor Applications (UKoLoS)".

Hot Stamping of Ultra High-Strength Steels John Wiley & Sons

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.

Proceedings of the International School of Physics "Enrico Fermi." Racha M Zeidan

Do you want to know how to use a Power meter for trail running? Or are you an ultra runner and want to learn how to optimally perform at your next race? Then "Power to Trail and Ultra Runners" is a must-read for you! This book is a guide for using Power meters in both ultra and trail running. In addition to introducing the relevant Power-related quantities, including some new concepts, you'll learn how to: - Implement a Power meter into your training routine - Develop a personal training plan for your target race - Set up a race strategy that lets you achieve your goals! Furthermore, "Power to Trail and Ultra Runners" comes with a set of key workouts for your training as well as two examples of training plans, targeting different race durations. Markus Holler is an ambitious trail runner and scientist. He holds a Dr. rer. nat. (German natural-science Ph.D. equivalent) in Physics and works at the University of Innsbruck in the Austrian Alps. Holler successfully finished several alpine ultra-trail races and now regularly achieves good placements with his power-based training and racing strategy. Start becoming a better trail and ultra runner with this book today!

Spectroscopy Springer Nature

The realm of ultra precision mechanisms, for example in controlling motion to small fractions of a micrometer, is encroaching into many fields of technology. This book aims to provide a bridge for those moving from either an engineering or physics background towards the challenges offered by ultraprecision mechanisms. Using case study examples, this book provides a guide to basic techniques and gives technical, analytical and practical information.

Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications Markus Holler

This introductory reference covers the technology and concepts of ultra-wideband (UWB)

radar systems. It provides up-to-date information for those who design, evaluate, analyze, or use UWB technology for any application. Since UWB technology is a developing field, the authors have stressed theory and hardware and have presented basic principles and concepts to help guide the design of UWB systems. Introduction to Ultra-Wideband Radar Systems is a comprehensive guide to the general features of UWB technology as well as a source for more detailed information.

Introduction to Ultra-Wideband Radar Systems Springer Science & Business Media

This book introduces the origin of biomedical signals and the operating principles behind them and introduces the characteristics of common biomedical signals for subsequent signal measurement and judgment. Since biomedical signals are captured by wearable devices, sensor devices, or implanted devices, these devices are all battery-powered to maintain long working time. We hope to reduce their power consumption to extend service life, especially for implantable devices, because battery replacement can only be done through surgery. Therefore, we must understand how to design low-power integrated circuits. Both implantable and in-vitro medical signal detectors require two basic components to collect and transmit biomedical signals: an analog-to-digital converter and a frequency synthesizer because these measured biomedical signals are wirelessly transmitted to the relevant receiving unit. The core unit of wireless transmission is the frequency synthesizer, which provides a wide frequency range and stable frequency to demonstrate the quality and performance of the wireless transmitter. Therefore, the basic operating principle and model of the frequency synthesizer are introduced. We also show design examples and measurement results of a low-power low-voltage integer-N frequency synthesizer for biomedical applications. The detection of biomedical signals needs to be converted into digital signals by an analog-to-digital converter to facilitate subsequent signal processing and recognition. Therefore, the operating principle of the analog-to-digital converter is introduced. We also show implementation examples and measurement results of low-power low-voltage analog-to-digital converters for biomedical applications.

Ultra-Low-Voltage Frequency Synthesizer and Successive-Approximation Analog-to-Digital Converter for Biomedical Applications Springer

The increasing demand in electronic portability imposes low power consumption as a key metric to analog and digital circuit design. Tunnel FET (TFET) devices have been explored mostly in digital circuits, showing promising results for ultra-low power and energy efficient circuit applications. The TFET presents a low inverse sub-threshold slope (SS) that allows a low leakage energy consumption, desirable in many digital circuits, especially memories. In this book, the TFET is explored as an alternative technology also for ultra-low power and voltage conversion and management circuits, suitable for weak energy harvesting (EH) sources. The TFET distinct electrical characteristics under reverse bias conditions require changes in conventional circuit topologies. In this book, ultra-low input power conversion circuits based on TFETs are designed and analyzed, evaluating their performance as rectifiers, charge pumps and power management circuits (PMC) for RF and DC EH sources.

Ultra-low Voltage Circuit Techniques for Energy Harvesting CRC Press

Jurgen Schulte and Christian Endler met in 1990 at an international conference on the Structure of Water held in the Lecture Halls of the University of Graz (Austria).

Disappointed by the lack of a systematic strategy of research into the physics of homeopathy Jurgen Schulte started to work on the establishment of scientifically acceptable research standards in physics of homeopathy and encouraged academic researchers to establish a coordinated and focused research strategy. In 1994, with the help of major representatives of the international research community, they edited one of the first academic interdisciplinary books on Ultra High Dilution and homeopathy that underwent a rigorous scientific international referee process before publishing. Due to the dedicated help of the prominent referees (BD Josephson, Nobel Laureate, Cavendish Lab., Cambridge; M Bastide, Fac de Pharmacy, University Montpellier; RG Jahn, Aerospace Science, Princeton University), the book 1994 was quickly considered a mile stone and turning point for the scientific approach of research into Ultra High Dilution and homeopathy. Since then the academic research community has grown considerably and many international conferences have been held. Today, research into homeopathy is to be accepted by the European Union as part of the academic sciences, worthy to be funded at European Union level; an effort that took many years of research coordination and research strategy development. Excerpts of the Research Strategy of the European Committee for Homeopathy (ECH) have been included in this book.

Ultra-Wideband Radio Technologies for Communications, Localization and Sensor Applications Springer Science & Business Media

An ideal lifestyle book that helps readers achieve their preferred weight without the rigid controls that so many diet plans impose on participants. Zeidan develops for readers, the need to have a burn more than you eat mindset towards their bodies. The plan in the book is direct and simple and can fit into peoples busy and hectic life and allows them to have their occasional cravings while still achieving their desired weight.

Ultra-Low-Power Short-Range Radios Springer

The market of wearable wireless medical sensors is experiencing a rapid growth and the associated telecommunications services for the healthcare sector are forecast to further increase in the next years. Medical body area networks (MBANs) allow the mobility of patients and medical personnel by facilitating the remote monitoring of patients suffering from chronic or risky diseases. Currently, MBANs are being introduced in unlicensed frequency bands, where the risk of mutual interference with other electronic devices radiating in the same band can be high. Thus, coexistence is an issue on which the research scientists have dedicated much effort. Ultra wideband (UWB) signals offer many advantages to MBANs, and some features of this technology can be exploited for effective implementation of services. UWB can help in several aspects, like spectrum efficiency, energy consumption and coexistence. This book discusses the main aspects, and, in particular, the coexistence, of MBANs based on the IEEE 802.15.6 Standard using UWB physical layer. A exhaustive description of body area networks using IEEE802.15.4 technologies, providing an in-depth understanding of how the overall system works Provides understanding and insight on the use of ultra wide band technologies for the physical layer of body area networks; low power consumption and coexistence are investigated Includes services, methodologies and results related to link-level and system-level evaluations of body area networks

Chemical Engineer Springer Nature

Providing a comprehensive overview of hot stamping (also known as 'press hardening'), this book examines all essential aspects of this innovative metal forming method, and explores its various uses. It investigates hot stamping from both technological and business perspectives, and outlines potential future developments. Individual chapters explore topics such as the history of hot stamping, the state of the art, materials and processes employed, and how hot stamping is currently being used in the automotive industry to create ultra-high-strength steel components. Drawing on experience and expertise gathered from academia and industry worldwide, the book offers an accessible resource for a broad readership including students, researchers, vehicle manufacturers and metal forming companies.

The Nation BoD – Books on Demand

This book explores the design of ultra-low-power radio-frequency integrated circuits (RFICs), with communication distances ranging from a few centimeters to a few meters. The authors describe leading-edge techniques to achieve ultra-low-power communication over short-range links. Many different applications are covered, ranging from body-area networks to transcutaneous implant communications and smart-appliance sensor networks. Various design techniques are explained to facilitate each of these applications.

Knowledge... World Scientific

To do what no other magazine does: Deliver simple, delicious food, plus expert health and lifestyle information, that's exclusively vegetarian but wrapped in a fresh, stylish mainstream package that's inviting to all. Because while vegetarians are a great, vital, passionate niche, their healthy way of eating and the earth-friendly values it inspires appeals to an increasingly large group of Americans. VT's goal: To embrace both.