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Allocations and Priorities Guide CRC Press
PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

The Leather Manufacturer Trans Tech Publications Ltd
This book provides the first comprehensive description of time crystals which have a repeating structure in time. It introduces the fundamental concepts behind time crystals and explores the many different branches of this new research area. The book starts with the original idea of the time crystallization in quantum systems as introduced by Wilczek and follows the development of the field up to the present day. Both spontaneous formation of crystalline structures in time and concepts of the condensed matter physics in the time domain, ranging from Anderson localization in time to many-body systems with exotic interactions, are described. The prospect of creation of novel objects by means of time engineering is also presented. The book assumes knowledge of quantum mechanics to the graduate level. It serves as a valuable reference with pointers to future research directions for graduate students and senior scientists alike.

Official Gazette of the United States Patent and

Trademark Office Springer Nature

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

Government-wide Index to Federal Research & Development Reports ASM International

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.

7T MRI, An Issue of Magnetic Resonance Imaging Clinics of North America Springer

This issue of MRI Clinics of North America focuses on 7T MRI and is edited by Dr. Meng Law. Articles will include: 3T vs 7T MRI: Is It Really Worth It?; High Resolution Structural MRI & Quantitative Susceptibility Mapping; High Resolution Neurovascular Imaging at 7T: Arterial Spin Labeling Perfusion, 4-dimensional MR Angiography and Black blood MRI; 7T and Beyond Functional MRI; Sodium and Other UHF MRI; MR-EYE: Ultra High Field MRI of the Human Eye and Orbit at 7T; 7T MRI of Perivascular Spaces; 7T MRI in "Non Lesional" Epilepsy/ Perivascular Spaces; 7T Multiple Sclerosis; 7T Brain Tumors and Radiation Therapy; 7T Musculoskeletal MRI; Body Applications for 7T; MRI Safety at 7T/Implants; 7T Simultaneous MRI PET with PET Insert; GluCest 7T MRI; and more!

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

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.

The Ladies' Home Journal Springer

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.

Knowledge and Illustrated Scientific News IOS Press 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.

Research in Progress Springer Nature

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.

Knowledge & Illustrated Scientific News Springer Science & Business Media
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.
Modern Technologies for Engineering, Applied Mechanics and Material Science Elsevier
The idea of editing this book was born in the winter of 1988/1989. Christian Endler was organizing the workshop 'Wasser und Information' (water and information) in Austria [1], and Jürgen Schulte was working on a publication of his results on atomic cluster stabilities and long-range electromagnetic interaction in atomic clusters. It was Franz Moser from the Technical University of Graz who brought these two together. After a talk that Moser had given in Bremen, Schulte explained to hirn his ideas about clusters and long range interaction, and his concern about reliable theories and experiments in research on ultra high dilutions (UHD) and homoeopathy. He was suggested to be a speaker at the Austrian workshop. Reviewing the contributions of this workshop and the current literature on UHD and homoeopathy, especially the PhD thesis by Giesela King [2] and the excellent survey by Marco Righetti [3], we decided to work on a book in order to critically encou rage more scientists to work and publish in this field with a high scientific standard. What we had in mind was a useful contribution to the goal to lift research on UHD and homoeo pathy to an internationally acceptable scientific standard, to encourage international scien tists to work in this area and to establish UHD and homoeopathy in academic science. Delayed by our individual academic careers in our specific fields, and delayed by lack of funds it took us about four years to finish this book.
Body Area Networks using IEEE 802.15.6 Academic Press
The papers published in this volume were presented at the Second International Conference on Ultra-

WidebandiShort-Pulse (UWB/SP) Electromagnetics, AprIIS-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 1. 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.

Ultra-Wideband and 60 GHz Communications for Biomedical Applications BoD – Books on Demand This century has seen the development of technologies for manipulating and controlling matter and light at the level of individual photons and atoms, a realm in which physics is fully quantum-mechanical. The dominant experimental technology is the laser, and the theoretical paradigm is quantum optics.The Quantum World of Ultra-Cold Atoms and Light is a trilogy, which presents the quantum optics way of thinking and its applications to quantum devices. This book — 'Ultra-Cold Atoms' — provides a theoretical treatment of ultra-cold Bosons and Fermions and their interactions with electromagnetic fields in a form consistent with the first two books in the trilogy.The central concept is the quantum stochastic paradigm, formulated for cold collision physics. For Bosons, this yields a suite of techniques; versions of the stochastic Gross-Pitaevskii equation, using which a wide range of dynamic and thermal properties are formulated.The eBook editions of the 'Quantum World Trilogy' feature an extensive system of hyperlinks for ease of cross reference within the books, as well as links to the other books in the trilogy. In the section Viewing the eBooks we explain how these links work, and give some advice on appropriate pdf viewer applications.

Advances in Atomic, Molecular, and Optical Physics Springer Science & Business Media

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.

Ultra High Dilution

Academic Press

The automotive industry is under constant pressure to design vehicles capable of meeting increasingly demanding challenges such as improved fuel economy, enhanced safety and effective emission control. Drawing on the knowledge of leading experts, Advanced materials in automotive engineering explores the development, potential and impact of using such materials.Beginning with a comprehensive introduction to advanced materials for vehicle lightweighting and automotive applications, Advanced materials in automotive engineering goes on to consider nanostructured steel for automotive body structures, aluminium sheet and high pressure die-cast aluminium alloys for automotive applications, magnesium alloys for lightweight powertrains and automotive bodies, and polymer and composite moulding technologies. The final chapters then consider a range of design and manufacturing issues that need to be addressed when working with advanced materials, including the design of advanced automotive body structures and closures, technologies for reducing noise, vibration and harshness, joining systems, and the recycling of automotive materials.With its distinguished editor and international team of contributors, Advanced materials in automotive engineering is an invaluable guide for all those involved in the engineering, design or analysis of motor vehicle bodies and components, as well as all students of automotive design and engineering. - Explores the development, potential and impact of using advanced materials for improved fuel economy, enhanced safety and effective mission control in the automotive industry - Provides a comprehensive introduction to advanced materials for vehicle lightweighting and automotive applications - Covers a range of design ideas and manufacturing issues that arise when working with advanced materials, including technologies for reducing noise, vibration and harshness, and the recycling of automotive materials

Advanced High-Strength Steels CRC Press

Advances in Atomic, Molecular, and Optical Physics publishes reviews of recent developments in a field that is in a state of rapid growth, as new experimental and theoretical techniques are used on many old and new problems. Topics covered include related applied areas, such as atmospheric science, astrophysics, surface physics and laser physics. Articles are written by distinguished experts and contain relevant review material and detailed descriptions of important recent developments. - International experts - Comprehensive articles -

New developments

Time Crystals World Scientific

Selected, peer reviewed papers from the 2014 5th International Conference on Manufacturing Science and Technology (ICMST 2014), June 7-8, 2014, Sarawak, Malaysia

Bulletin of the Antivenin Institute of America Springer Science & Business Media

The field of cold atomic gases faced a revolution in 1995 when Bose-Einstein condensation was achieved. Since then, there has been an impressive progress, both experimental and theoretical. The quest for ultra-cold Fermi gases started shortly after the 1995 discovery, and quantum degeneracy in a gas of fermionic atoms was obtained in 1999. The Pauli exclusion principle plays a crucial role in many aspects of ultra-cold Fermi gases, including inhibited interactions with applications to precision measurements, and strong correlations. The path towards strong interactions and pairing of fermions opened up with the discovery in 2003 that molecules formed by fermions near a Feshbach resonance were surprisingly stable against inelastic decay, but featured strong elastic interactions. This remarkable combination was explained by the Pauli exclusion principle and the fact that only inelastic collisions require three fermions to come close to each other. The unexpected stability of strongly interacting fermions and fermion pairs triggered most of the research which was presented at this summer school. It is remarkable foresight (or good luck) that the first steps to organize this summer school were already taken before this discovery. It speaks for the dynamics of the field how dramatically it can change course when new insight is obtained. The contributions in this volume provide a detailed coverage of the experimental techniques for the creation and study of Fermi quantum gases, as well as the theoretical foundation for understanding the properties of these novel systems.

The Electrical Journal Elsevier Health Sciences

Examines the types, microstructures and attributes of AHSSAlso reviews the current and future applications, the benefits, trends and environmental and sustainability issues.

Coal Resources of the United States

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)".