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Millimeter and Submillimeter Waves - 1998

Recent Progress in Surface Electromagnetic Modes - Lin Chen 2021-07-08

Information and Communication Technology for Sustainable Development - Milan Tuba

2019-06-26

The book proposes new technologies and

discusses future solutions for ICT design infrastructures, and includes high-quality submissions presented at the Third International Conference on ICT for Sustainable Development (ICT4SD 2018), held in Goa, India on 30-31 August 2018. The conference stimulated cutting-edge research discussions among pioneering researchers, scientists, industrial engineers, and students from all around the world. Bringing together experts from different countries, the book focuses on innovative issues at an international level.

Millimeter and Submillimeter Detectors for Astronomy - 2002

Advanced Informatics for Computing Research - Ashish Kumar Luhach 2021-06-19
This two-volume set (CCIS 1393 and CCIS 1394) constitutes selected and revised papers of the 4th International Conference on Advanced Informatics for Computing Research, ICAICR 2020, held in Gurugram, India, in December

2020. The 34 revised full papers and 51 short papers presented were carefully reviewed and selected from 306 submissions. The papers are organized in topical sections on computing methodologies; hardware; networks; security and privacy.

Novel Microwave and Millimeter-wave Radar Technologies and Applications - Cheng Liang 2001

Nanodevices for Microwave and Millimeter Wave Applications - Isabelle Huynen 2020-06-16

The microwave and millimeter wave frequency range is nowadays widely exploited in a large variety of fields including (wireless) communications, security, radar, spectroscopy, but also astronomy and biomedical, to name a few. This Special Issue focuses on the interaction between the nanoscale dimensions and centimeter to millimeter wavelengths. This interaction has been proven to be efficient for

the design and fabrication of devices showing enhanced performance. Novel contributions are welcome in the field of devices based on nanoscaled geometries and materials. Applications cover, but not are limited to, electronics, sensors, signal processing, imaging and metrology, all exploiting nanoscale/nanotechnology at microwave and millimeter waves. Contributions can take the form of short communications, regular or review papers.

High-Frequency Analog Integrated Circuit Design - Ravender Goyal 1995

. Offering comprehensive coverage of state-of-the-art GaAs MESFET technology and design techniques for analog ICs, this book features detailed, step-by-step guidance on everything from basic concepts such as biasing network, current source, current mirrors, and differential circuits; to more complex designs, such as amplifiers, mixers, oscillators, and operational amplifier designs; and finally, high-level

functions such as A/D and D/A converters and their implementation in GaAs technology.

Optical and Wireless Technologies - Vijay Janyani 2019-04-09

This volume presents selected papers from the 2nd International Conference on Optical and Wireless Technologies, conducted from 10th to 11th February, 2018. It focuses on extending the limits of currently used systems encompassing optical and wireless domains, and explores novel research on wireless and optical techniques and systems, describing practical implementation activities, results and issues. The book will serve as a valuable reference resource for academics and researchers across the globe.

Active and Quasi-Optical Arrays for Solid-State Power Combining - Robert A. York 1997-04-11

A detailed and timely overview of recent developments in active quasi-optical arrays In recent years, active quasi-optics has emerged as one of the most dynamic fields of contemporary

research—a highly unconventional approach to microwave and millimeter-wave power generation that integrates solid-state devices into a single quasi-optical component in which all devices operate in unison. This book defines and describes active quasi-optical arrays, reviews the current state of the art, and answers numerous basic and technical questions on the design, analysis, and application of these devices. The contributors to this volume are leading researchers in the field who present results and views from government, industrial, and university laboratories and offer a balanced discussion on a high technical level. They also offer insight into the applicability and commercial value of this technology for military systems, manufacturing processes, communications, and consumer products. Topics presented include: Analysis and design methodologies for quasi-optical active arrays Power-added and power-combining efficiencies of quasi-optical amplifier arrays Phase-

shifterless beam steering in oscillator and amplifier arrays Integrating quasi-optical active components into a compact subsystem Design and fabrication of quasi-optical oscillators, amplifiers, multipliers, and tuners Characterization and measurement of quasi-optical components

Terahertz Frequency Detection and Identification of Materials and Objects - R.E.

Miles 2007-09-08

Want an overview of where the technology of terahertz detection has been going? Here it is. The technology has largely been developed around expensive and bulky femtosecond laser systems but, as described in this book, advances in semiconductor superlattice technology are leading to compact "electronic" sources such as the quantum cascade laser, two-terminal "Gunn" type oscillators and even a THz frequency amplifier. These advances towards electronic (as opposed to optical) THz systems mean that the technology will become portable and much less

costly.

ARFTG Conference Digest - 2002

Fundamentals of Terahertz Devices and Applications - Dimitris Pavlidis 2021-07-19

An authoritative and comprehensive guide to the devices and applications of Terahertz technology

Terahertz (THz) technology relates to applications that span in frequency from a few hundred GHz to more than 1000 GHz.

Fundamentals of Terahertz Devices and Applications offers a comprehensive review of the devices and applications of Terahertz technology. With contributions from a range of experts on the topic, this book contains in a single volume an inclusive review of THz devices for signal generation, detection and treatment.

Fundamentals of Terahertz Devices and Applications offers an exploration and addresses key categories and aspects of Terahertz Technology such as: sources, detectors, transmission, electronic considerations and

applications, optical (photonic) considerations and applications. Worked examples—based on the contributors' extensive experience—highlight the chapter material presented. The text is designed for use by novices and professionals who want a better understanding of device operation and use, and is suitable for instructional purposes This important book: Offers the most relevant up-to-date research information and insight into the future developments in the technology Addresses a wide-range of categories and aspects of Terahertz technology Includes material to support courses on Terahertz Technology and more Contains illustrative worked examples Written for researchers, students, and professional engineers, Fundamentals of Terahertz Devices and Applications offers an in-depth exploration of the topic that is designed for both novices and professionals and can be adopted for instructional purposes.

IEICE Transactions on Electronics - 2007

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Millimeter Wave Imaging Technologies for Plasma Diagnostics on Superconducting Tokamak Machines - Zuwei Shen 2007

Quasi-optical Switching Array Technology - Fan Jiang 1998

Terahertz Technology and Its Applications - Victor Pacheco Peña 2021-08-31

The Terahertz frequency range (0.1 - 10)THz has demonstrated to provide many opportunities in prominent research fields such as high-speed communications, biomedicine, sensing, and imaging. This spectral range, lying between electronics and photonics, has been historically known as “terahertz gap” because of the lack of experimental as well as fabrication technologies. However, many efforts are now being carried out worldwide in order improve technology working at this frequency range. This book represents a mechanism to highlight some of the work being done within this range of the

electromagnetic spectrum. The topics covered include non-destructive testing, terahertz imaging and sensing, among others.

Elektronik für Ingenieure - Ekbert Hering 2013-07-02

Dieses klar und kompetent geschriebene Buch hat sich einen Spitzenplatz als Lehrbuch an den Hochschulen sowie als Nachschlagewerk für den Praktiker erobert. Dies läßt sich zurückführen auf sein überzeugendes didaktisches Konzept, die klaren Strukturen und die praxisnahen Beispiele. Dabei spannen die Autoren den mitunter weiten Bogen von den Grundlagen zu den Anwendungen. In der 4. Auflage wurden die Inhalte aktualisiert, manche Ausführungen verständlicher und klarer formuliert und alle Daten auf den aktuellen Stand gebracht. Dies gilt insbesondere auch für die elektrische Sicherheit und die elektromagnetische Verträglichkeit (EMV). "Es gibt wenige gute Grundlagen für den Elektronikingenieur; dieses Werk sollte man aber in jedem Fall zu seiner

Pflichtlektüre machen!" Elektronik High Performance 12-24 GHz RF Front-end Components Fabricated in a Commercial SiGe Bipolar Process - Timothy Michael Hancock 2005

Mikrowellentechnik - Holger Heuermann
2020-04-29

Das Buch behandelt die verschiedenen numerischen Feldsimulationsverfahren, nichtlineare Schaltungstechnik und deren S- und X-Parameter sowie modernste Leistungsverstärkertechniken. Weiterhin werden neuartig dargestellte Oszillatoren und das große neue Feld der GHz-Plasmatechnik beschrieben. Darüber hinaus deckt es mit den Themen Hohlleiter, Mischer, Phasenregelkreise, Antennen und Ausbreitungseffekte in Kombination mit dem Bachelor-Buch „Hochfrequenztechnik“ alle Aspekte ab, die den aktuellen Stand der GHz-Technik betreffen. Die in diesem Lehrbuch vorgestellte Mikrowellenelektronik und -technik fasst somit

die moderne Technik der elektromagnetischen sowie nichtlinearen Grundlagen, die im ein- und zweistelligen GHz-Bereich für Funk-, Navigations-, Lokalisierungs-, Mess-, Heiz- und sonstige Systeme benötigt werden, zusammen. *Quasi-optical Beam Control Array* - Fan Jiang 1996

Conference Digest : Eighteenth International Conference on Infrared and Millimeter Waves - James R. Birch 1993

Proceedings - 1995

Advanced Millimeter-wave Technologies - Duixian Liu 2009-03-03

This book explains one of the hottest topics in wireless and electronic devices community, namely the wireless communication at mmWave frequencies, especially at the 60 GHz ISM band. It provides the reader with knowledge and techniques for mmWave antenna design,

evaluation, antenna and chip packaging. Addresses practical engineering issues such as RF material evaluation and selection, antenna and packaging requirements, manufacturing tolerances, antenna and system interconnections, and antenna One of the first books to discuss the emerging research and application areas, particularly chip packages with integrated antennas, wafer scale mmWave phased arrays and imaging Contains a good number of case studies to aid understanding Provides the antenna and packaging technologies for the latest and emerging applications with the emphases on antenna integrations for practical applications such as wireless USB, wireless video, phase array, automobile collision avoidance radar, and imaging
Terahertz and Gigahertz Photonics - R. Jennifer Hwu 1999

Development of Slot Bow-tie Antennas for

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Microwave Imaging Reflectometry - Peiling Xu 2000

Multielement-Frequenzvervielfacher zur Leistungserzeugung im Submillimeterwellenbereich - Bert Schumann 2003-07-03

Frequenzverdreifacher mit antiseriellem Schottky-Varaktor für den Terahertzbereich - Markus Krach 2004

Quasi-optical Overmoded Waveguide Frequency Multiplier Grid Array Design - Steven Andrew Rosenau 1998

The Investigation of Dual Dipole Antenna Imaging Array and Development of Schottky Diode Fabrication - Zhengang Xia 2002

Terahertz Planar Antennas for Next Generation Communication - Kumud Ranjan

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Jha 2014-01-10

This book describes various methods to enhance the directivity of planar antennas, enabling the next generation of high frequency, wireless communication. The authors discuss various applications to the terahertz regime of the electromagnetic spectrum, with an emphasis on gain enhancement mechanisms. The numerical models of these antennas are presented and the analytical results are supported, using commercial simulators. The multilayer substrate microstrip transmission line at terahertz frequency is also explored and a method to obtain the various parameters of this interconnect at high frequency is described. This book will be a valuable resource for anyone needing to explore the terahertz band gap for future wireless communication, in an effort to solve the bandwidth (spectrum scarcity) problem.

Microwave/millimeter-wave Beam Steering/shaping Phased Antenna Arrays

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and Planar Imaging Antenna Arrays for Plasma Diagnostic Application - Lu Yang 2007

Long-Range Ultra-Wideband Radar Sensor for Industrial Applications - Ahmed Abbas Hussein Ameri 2013

Quasi-optical Overmoded Waveguide Frequency Multiplier Grid Arrays - Steven Andrew Rosenau 2001

Terahertz Wireless Communication Components and System Technologies - Mohammed El Ghzaoui 2022-05-07

This book presents scientific and technological innovations and advancements already developed or under development in academia, industry, and research communities. It includes fundamental ideas and advancement in terahertz technology covering high intensity terahertz wave generation, THz detection, different modes

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of THz wave generation, THz modulation system, and terahertz propagation channel modeling. It highlights methodologies for the design of terahertz components and system technologies including emerging applications. The chapter contents are based on theoretical, methodological, well-established, and validated empirical work dealing with different topics in the terahertz domain. The book covers a very broad audience ranging from basic sciences to experts and learners in engineering and technology. It would be a good reference for advanced ideas and concepts in THz technology which will best suit microwave, biomedical, and electrical and communication engineers working towards next-generation technology.

Rectenna: Wireless Energy Harvesting System - Binod Kumar Kanaujia 2021-05-22

This book covers the theory, modeling, and implementation of different RF energy harvesting systems. RF energy harvesting is the best choice among the existing renewable

energy sources, in terms of availability, cost, size, and integration with other systems. The device used for harvesting RF energy is called rectenna. A rectenna can work at the microwave, millimeter-wave, and terahertz waves. It also has the capability to operate at optical frequencies to be used for 6G and beyond communication systems. This book covers all aspects of wireless power transfer (WPT)/wireless energy harvesting (WEH), basics, theoretical concepts, and advanced developments occurring in the field of energy harvesting. It also covers the design theory for different types of antenna, rectifier, and impedance matching circuits used in RF energy harvesting systems. Different future and present applications, such as charging of vehicles, smart medical health care, self-driven e-vehicles, self-sustainable home automation system, and wireless drones, have also been discussed in detail.

1993 IEEE MTT-S International Microwave

Symposium Digest - Waymond R. Scott 1993

International Journal of Infrared and

Millimeter Waves - 2003

Conference Proceedings - 2003

Microwave Journal - 1998