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Convergence of Terahertz Sciences in Biomedical Systems



Springer

Convergence Of Terahertz Sciences In Biomedical Systems

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Das, Trupti Ranjan Lenka, Arindam
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Convergence Of Terahertz Sciences In Biomedical Systems:

Convergence of Terahertz Sciences in Biomedical Systems Gun-Sik Park,Yong Hyup Kim,Haewook Han,Joon Koo Han,Jaewook Ahn,Joo-Hiuk Son,Woong-Yang Park,Young Uk Jeong,2012-10-19 Recent technological breakthrough in the field of Terahertz radiation has triggered new applications in biology and biomedicine Particularly biological applications are based on the specific spectroscopic fingerprints of biological matter in this spectral region Historically with the discovery of new electromagnetic wave spectrum we have always discovered new medical diagnostic imaging systems The use of terahertz wave was not realized due to the absence of useful terahertz sources Now after successful generation of THz waves it is reported that a great potential for THz wave exists for its resonance with bio molecules There are many challenging issues such as development of THz passive and active instrumentations understanding of THz Bio interaction for THz spectroscopy THz Bio nonlinear phenomena and safety guideline and THz imaging systems Eventually the deeper understanding of THz Bio interaction and novel THz systems enable us to develop powerful THz biomedical imaging systems which can contribute to biomedical industry This is a truly interdisciplinary field and convergence technology where the communication between different disciplines is the most challenging issue for the success of the great works One of the first steps to promote the communications in this convergence technology would be teaching the basics of these different fields to the researchers in a plain language with the help of Convergence of Terahertz Science in Biomedical Systems which is considered to be 3 4th year college students or beginning level of graduate students Therefore this type of book can be used by many people who want to enter or understand this field Even more it can be used for teaching in universities or research institutions

Convergence of Terahertz Sciences in Biomedical Systems Gun-Sik Park,Yong Hyup Kim,Haewook Han,Joon Koo Han,Jaewook Ahn,Joo-Hiuk Son,Woong-Yang Park,Young Uk Jeong,2012-10-19 Recent technological breakthrough in the field of Terahertz radiation has triggered new applications in biology and biomedicine Particularly biological applications are based on the specific spectroscopic fingerprints of biological matter in this spectral region Historically with the discovery of new electromagnetic wave spectrum we have always discovered new medical diagnostic imaging systems The use of terahertz wave was not realized due to the absence of useful terahertz sources Now after successful generation of THz waves it is reported that a great potential for THz wave exists for its resonance with bio molecules There are many challenging issues such as development of THz passive and active instrumentations understanding of THz Bio interaction for THz spectroscopy THz Bio nonlinear phenomena and safety guideline and THz imaging systems Eventually the deeper understanding of THz Bio interaction and novel THz systems enable us to develop powerful THz biomedical imaging systems which can contribute to biomedical industry This is a truly interdisciplinary field and convergence technology where the communication between different disciplines is the most challenging issue for the success of the great works One of the first steps to promote the communications in this convergence technology would be teaching

the basics of these different fields to the researchers in a plain language with the help of Convergence of Terahertz Science in Biomedical Systems which is considered to be 3 4th year college students or beginning level of graduate students

Therefore this type of book can be used by many people who want to enter or understand this field Even more it can be used for teaching in universities or research institutions **Sub-Terahertz Sensing Technology for Biomedical Applications**

Shiban Kishen Koul,Priyansha Kaurav,2022-08-20 This book offers the readers an opportunity to acquire the concepts of artificial intelligence AI enabled sub THz systems for novel applications in the biomedical field The readers will also be inspired to contextualize these applications for solving real life problems such as non invasive glucose monitoring systems cancer detection and dental imaging The introductory section of this book focuses on existing technologies for radio frequency and infrared sensing in biomedical applications and their limited use in sensing applications as well as the advantages of using THz technology in this context This is followed by a detailed comparative analysis of THz electronics technology and other conventional electro optic THz setups highlighting the superior efficiency affordability and portability of electronics based THz systems The book also discusses electronic sub THz measurement systems for different biomedical applications The chapters elucidate two major applications where sub THz provides an edge over existing state of the art techniques used for non invasive measurement of blood glucose levels and intraoperative assessment of tumor margins There is a detailed articulation of an application of leveraging machine learning for measurement systems for non invasive glucose concentration measurement This helps the reader relate to the output in a more user friendly format and understand the possible use cases in a more lucid manner The book is intended to help the reader learn how to build tissue phantoms and characterize them at sub THz frequencies in order to test the measurement systems Towards the end of the book a brief introduction to system automation for biomedical imaging is provided as well for quick analysis of the data The book will empower the reader to understand and appreciate the immense possibilities of using electronic THz systems in the biomedical field creating gateways for fueling further research in this area *Terahertz Wireless Communication*

Components and System Technologies Mohammed El Ghzaoui,Sudipta Das,Trupti Ranjan Lenka,Arindam Biswas,2022-04-03 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 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 *Deep Imaging in Tissue and Biomedical Materials* Lingyan Shi, Robert R. Alfano, 2017-03-16 The use of light for probing and imaging biomedical media is promising for the development of safe noninvasive and inexpensive clinical imaging modalities with diagnostic ability The advent of ultrafast lasers has enabled applications of nonlinear optical processes which allow deeper imaging in biological tissues with higher spatial resolution This book provides an overview of emerging novel optical imaging techniques Gaussian beam optics light scattering nonlinear optics and nonlinear optical tomography of tissues and cells It consists of pioneering works that employ different linear and nonlinear optical imaging techniques for deep tissue imaging including the new applications of single and multiphoton excitation fluorescence Raman scattering resonance Raman spectroscopy second harmonic generation stimulated Raman scattering gain and loss coherent anti Stokes Raman spectroscopy and near infrared and mid infrared supercontinuum spectroscopy The book is a comprehensive reference of emerging deep tissue imaging techniques for researchers and students working in various disciplines *Smart Antennas* Praveen Kumar Malik, Joan Lu, B T P Madhav, Geeta Kalkhambkar, Swetha Amit, 2022-02-03 This book presents the latest techniques for the design of antenna focusing specifically on the microstrip antenna The authors discuss antenna structure defected ground MIMO and fractal design The book provides the design of microstrip antenna in terms of latest applications and uses in areas like IoT and device to device communication The book also provides the current methods and techniques used for the enhancement of the performance parameters of the microstrip antenna Chapters enhance the knowledge and skills of students and researchers in the latest in the communications world like IoT D2D satellite wearable devices etc The authors discuss applications such as microwave imaging medical implants hyperthermia treatments and wireless wellness monitoring and how a decrease in size of antenna help facilitate application potential Provides the latest techniques used for the design of antenna in terms of its structure defected ground MIMO and fractal design Outlines steps to resolve issues with designing antenna including the latest design and design parameters for microstrip antenna Presents the design of conformal and miniaturized antenna structures for various applications **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

Handbook of Terahertz Technologies Ho-Jin Song,Tadao Nagatsuma,2015-04-15 Terahertz waves which lie in the frequency range of 0.1-10 THz have long been investigated in a few limited fields such as astronomy because of a lack of devices for their generation and detection Several technical breakthroughs made over the last couple of decades now allow us to radiate and detect terahertz waves more easily which has triggered

Ultra-fast YBa₂Cu₃O_{7-x} Direct Detectors for the THz Frequency Range Petra Thoma,2014-07-28 For the analysis and optimization of the picosecond pulsed terahertz radiation generated by electron storage rings or other pulsed sources ultra fast detectors are required which are able to resolve picosecond dynamic processes directly in the time domain In this book a new direct terahertz detector technology based on the high temperature superconductor YBa₂Cu₃O_{7-x} has been developed which opens new routes in the analysis of picosecond time domain processes with a wide dynamic range

Physics of Quantum Rings Vladimir M. Fomin,2018-09-01 This book now in its second edition introduces readers to quantum rings as a special class of modern high tech material structures at the nanoscale It deals in particular with their formation by means of molecular beam epitaxy and droplet epitaxy of semiconductors and their topology driven electronic optical and magnetic properties A highly complex theoretical model is developed to adequately represent the specific features of quantum rings The results presented here are intended to facilitate the development of low cost high performance electronic spintronic optoelectronic and information processing devices based on quantum rings This second edition includes both new and significantly revised chapters It provides extensive information on recent advances in the physics of quantum rings related to the spin orbit interaction and spin dynamics spin interference in Rashba rings tunable exciton topology on type II InAs GaAsSb quantum nanostructures the electron phonon interaction in ring like structures quantum interference manifestations in novel materials graphene nanoribbons MoS₂ and the effects of electrical field and THz radiation on the optical properties of quantum rings The new edition also shares insights into the properties of various novel architectures including coupled quantum ring quantum dot chains and concentric quantum rings topologic states of light in self assembled ring like cavities and optical and plasmon modes in Mbus shaped resonators

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