

# TERAHERTZ SENSING TECHNOLOGY

Volume 1: Electronic Devices  
and Advanced Systems  
Technology

Editor

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World Scientific

# Terahertz Sensing Technology Electronic Devices And Advanced Systems Technology

**Subal Kar**



## **Terahertz Sensing Technology Electronic Devices And Advanced Systems Technology:**

Terahertz Sensing Technology ,2003      Terahertz Sensing Technology William R. Loerop,2003 The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas Contents THz Technology An Overview P H Siegel Two Terminal Active Devices for Terahertz Sources G I Haddad et al Multiplier and Harmonic Generator Technologies for Terahertz Applications R M Weikle II et al Submicron InP Based HBTs for Ultra High Frequency Amplifiers M Urteaga et al THz Generation by Photomixing in Ultrafast Photoconductors E R Brown Silicon Germanium Quantum Cascade Lasers R W Kelsall Plasma Wave Electronics M S Shur T Ray Sensing and Imaging S P Micken Multistatic Reflection Imaging with Terahertz Pulses T D Dorney et al Readership Undergraduates graduate students academics and researchers in electrical electronic engineering      *Terahertz Sensing Technology: Electronic devices and advanced systems technology* Dwight L. Woolard,William R. Loerop,Michael Shur,2003 The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas      *Terahertz Sensing Technology - Vol 1: Electronic Devices And Advanced Systems Technology* Michael S Shur,Dwight L Woolard,William R Loerop,2003-07-14 The last research frontier in high frequency electronics now lies in the so called THz or submillimeter wave regime between the traditional microwave and infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book serves as a detailed reference for the new THz frequency technological advances that are emerging across a wide spectrum of sensing and technology areas      **Terahertz Sensing Technology** William R. Loerop,2003 The last research frontier in high frequency electronics lies in the so called terahertz or submillimeter wave regime between the traditional microwave and the infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have

recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book provides a detailed review of the new THz frequency technological developments that are emerging across a wide spectrum of sensing and technology areas Volume II presents cutting edge results in two primary areas 1 research that is attempting to establish THz frequency sensing as a new characterization tool for chemical biological and semiconductor materials and 2 theoretical and experimental efforts to define new device concepts within the OC THz gap

OCO Contents THz Frequency Spectroscopic Sensing of DNA and Related Biological Materials T Globus et al Spectroscopy with Electronic Terahertz Techniques for Chemical and Biological Sensing M K Choi et al Terahertz Applications to Biomolecular Sensing A G Markelz Characteristics of Nano Scale Composites at THz and IR Spectral Regions J F Federici Fundamentals of Terrestrial Millimeter Wave and THz Remote Sensing E R Brown Terahertz Emission Using Quantum Dots and Microcavities G S Solomon et al Terahertz Transport in Semiconductor Quantum Structures S J Allen Advanced Theory of Instability in Tunneling Nanostructures D L Woolard et al Wigner Function Simulations of Quantum Device

OCOCircuits Interactions H L Grubin Continuous Wave Terahertz Spectroscopy of Plasmas and Biomolecules D F Plusquellic et al Readership Undergraduates graduate students academics and researchers in engineering and science

Terahertz Sensing Technology - Vol 2: Emerging Scientific Applications And Novel Device Concepts Michael S Shur, Dwight L Woolard, William R Loerop, 2004-02-06 The last research frontier in high frequency electronics lies in the so called terahertz or submillimeter wave regime between the traditional microwave and the infrared domains Significant scientific and technical challenges within the terahertz THz frequency regime have recently motivated an array of new research activities During the last few years major research programs have emerged that are focused on advancing the state of the art in THz frequency electronic technology and on investigating novel applications of THz frequency sensing This book provides a detailed review of the new THz frequency technological developments that are emerging across a wide spectrum of sensing and technology areas Volume II presents cutting edge results in two primary areas 1 research that is attempting to establish THz frequency sensing as a new characterization tool for chemical biological and semiconductor materials and 2 theoretical and experimental efforts to define new device concepts within the THz gap

**Handbook of Terahertz Technology for Imaging, Sensing and Communications** D Saeedkia, 2013-01-16 The recent development of easy to use sources and detectors of terahertz radiation has enabled growth in applications of terahertz Thz imaging and sensing This vastly adaptable technology offers great potential across a wide range of areas and the Handbook of terahertz technology for imaging sensing and communications explores the fundamental principles important developments and key applications emerging in this exciting field Part one provides an authoritative introduction to the fundamentals of terahertz technology for imaging sensing and communications The generation detection and emission of waves are discussed alongside fundamental

aspects of surface plasmon polaritons terahertz near field imaging and sensing room temperature terahertz detectors and terahertz wireless communications Part two goes on to discuss recent progress and such novel techniques in terahertz technology as terahertz bio sensing array imagers and resonant field enhancement of terahertz waves Fiber coupled time domain spectroscopy systems THz TDS terahertz photomixer systems terahertz nanotechnology frequency metrology and semiconductor material development for terahertz applications are all reviewed Finally applications of terahertz technology are explored in part three including applications in tomographic imaging and material spectroscopy art conservation and the aerospace wood products semiconductor and pharmaceutical industries With its distinguished editor and international team of expert contributors the Handbook of terahertz technology for imaging sensing and communications is an authoritative guide to the field for laser engineers manufacturers of sensing devices and imaging equipment security companies the military professionals working in process monitoring and academics interested in this field Examines techniques for the generation and detection of terahertz waves Discusses material development for terahertz applications Explores applications in tomographic imaging art conservation and the pharmaceutical and aerospace industries *Integrated Microsystems* Krzysztof Iniewski, 2017-12-19 As rapid technological developments occur in electronics photonics mechanics chemistry and biology the demand for portable lightweight integrated microsystems is relentless These devices are getting exponentially smaller increasingly used in everything from video games hearing aids and pacemakers to more intricate biomedical engineering and military applications Edited by Kris Iniewski a revolutionary in the field of advanced semiconductor materials *Integrated Microsystems Electronics Photonics and Biotechnology* focuses on techniques for optimized design and fabrication of these intelligent miniaturized devices and systems Composed of contributions from experts in academia and industry around the world this reference covers processes compatible with CMOS integrated circuits which combine computation communications sensing and actuation capabilities Light on math and physics with a greater emphasis on microsystem design and configuration and electrical engineering this book is organized in three sections Microelectronics and Biosystems Photonics and Imaging and Biotechnology and MEMs It addresses key topics including physical and chemical sensing imaging smart actuation and data fusion and management Using tables figures and equations to help illustrate concepts contributors examine and explain the potential of emerging applications for areas including biology nanotechnology micro electromechanical systems MEMS microfluidics and photonics **Radiation Effects and Soft Errors in Integrated Circuits and Electronic Devices** Dan M. Fleetwood, 2004 This book provides a detailed treatment of radiation effects in electronic devices including effects at the material device and circuit levels The emphasis is on transient effects caused by single ionizing particles single event effects and soft errors and effects produced by the cumulative energy deposited by the radiation total ionizing dose effects Bipolar Si and SiGe metalOxideOxide semiconductor MOS and compound semiconductor technologies are discussed In addition to considering the specific issues associated with high performance

devices and technologies the book includes the background material necessary for understanding radiation effects at a more general level Contents Single Event Effects in Avionics and on the Ground E Normand Soft Errors in Commercial Integrated Circuits R C Baumann System Level Single Event Upset Mitigation Strategies W F Heidergott Space Radiation Effects in Optocouplers R A Reed et al The Effects of Space Radiation Exposure on Power MOSFETs A Review K Shenai et al Total Dose Effects in Linear Bipolar Integrated Circuits H J Barnaby Hardness Assurance for Commercial Microelectronics R L Pease Switching Oxide Traps T R Oldham Online and Realtime Dosimetry Using Optically Stimulated Luminescence L Dusseau and other articles Readership Practitioners researchers managers and graduate students in electrical and electronic engineering semiconductor science and technology and microelectronics      Advanced Millimeter-wave Technologies Duixian Liu,Ulrich Pfeiffer,Janusz Grzyb,Brian Gaucher,2009-04-06 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 Technology T. Anukiruthika,Digvir S. Jayas,2023-08-22 Terahertz THz technology is an active area of research but only in recent years has the application of THz waves T waves in food and agricultural industries been explored Terahertz Technology Principles and Applications in the Agri Food Industry describes the operating principles of THz technology and discusses applications and advantages of the THz regime of the electromagnetic spectrum for use in the agri food industry The agri food industry is focusing on the development of non destructive quality evaluation techniques that can provide accurate analysis quickly and are environmentally friendly Among such techniques is THz technology that provides a novel noninvasive approach to quality assessment and safety assurance of agri food products The low energy of T waves is best suited for the analysis of sensitive biomaterials and does not cause photoionization Therefore THz imaging is complementary to X ray imaging Although accessing the THz spectrum is tedious by conventional devices the combination of optics and electronics principles has opened a dimension of research in this field This book provides an overview of THz spectroscopy and imaging system components types of THz systems and applications and advantages of THz for applications in the agri food industry It describes the basic working mechanism operating principle operation modes and system components of THz spectroscopy and imaging Various advancements in THz technology related to agricultural and food applications are discussed that could

serve as a guidebook for all those working and interested in non destructive food assessment techniques Key Features Explores broader applications of the THz regime in the agri food sector Describes system components different forms of THz systems and the working principle of T waves for spectroscopic and imaging techniques Provides insights on future research needs for industrial implementation of THz technology Complements the knowledge of other existing non destructive spectroscopy and imaging techniques for food analysis Although books on biomedical applications of THz have been published no book is available that deals with applications in the agri food industry Hence Terahertz Technology is beneficial for undergraduate and graduate students and those food industry professionals involved in research related to non destructive quality assessment and imaging techniques Advanced Semiconductor Devices Michael S. Shur, Paul A. Maki, James Kolodzey, 2007 This volume covers five emerging areas of advanced device technology wide band gap devices terahertz and millimeter waves nanometer silicon and silicon germanium devices nanoelectronics and ballistic devices and the characterization of advanced photonic and electronic devices The papers by leading researchers in high speed and advanced electronic and photonic technology presented many firsts and breakthrough results as has become a tradition with the Lester Eastman Conference and will allow readers to obtain up to date information about emerging trends and future directions of these technologies Key papers in each section present snap shot and mini reviews of state of the art and hot off the press results making the book required reading for engineers scientists and students working on advanced and high speed device technology **Transformational Science And Technology For The Current And Future Force (With Cd-rom) - Proceedings Of The 24th Us Army Science Conference** A M Rajendran, J A Parmentola, W Bryzik, B J Walker, J W Mccauley, J Reifman, N M Nasrabadi, 2006-11-08 This book provides the reader with a unique opportunity to understand the basic and applied research and technology areas that support applications to enable Transformational capabilities for US Soldiers The research papers are in line with the theme of the 24th Army Science Conference Transformational Science and Technology for the Current and Future Force emphasizing the critical role of Science and Technology in addressing the significant challenges posed by Global War On Terrorism while simultaneously developing Transformational capabilities for the Future Force **Molecular and Nano Electronics: Analysis, Design and Simulation** Jorge M. Seminario, 2006-10-24 The aim of Molecular and Nano Electronics Analysis Design and Simulation is to draw together contributions from some of the most active researchers in this new field in order to illustrate a theory guided approach to the design of molecular and nano electronics The field of molecular and nano electronics has driven solutions for a post microelectronics era where microelectronics dominate through the use of silicon as the preferred material and photo lithography as the fabrication technique to build binary devices transistors The construction of such devices yields gates that are able to perform Boolean operations and can be combined with computational systems capable of storing processing and transmitting digital signals encoded as electron currents and charges Since the invention of the integrated circuits microelectronics has reached

increasing performances by decreasing strategically the size of its devices and systems an approach known as scaling down which simultaneously allow the devices to operate at higher speeds Provides a theory guided approach to the design of molecular and nano electronics Includes solutions for researchers working in this area Contributions from some of the most active researchers in the field of nano electronics

**High Performance Devices - Proceedings Of The 2004 Ieee Lester Eastman Conference** Robert Leoni, 2005-04-26 This volume presents state of the art works from top academic and research institutions in the areas of high performance semiconductor materials devices and circuits A broad coverage of topics relating to high performance devices and circuits is featured here There are 46 contributed papers covering a wide range of materials device types and applications These papers describe the results of ongoing research in three general areas high speed technologies for advanced mixed signal and terahertz applications advanced technologies for high performance optical links and light sources and high power density and high efficiency technologies for next generation microwave front ends and power electronics

**Wireless Technology** Subal Kar, 2024-12-03 This book covers the active devices circuits and systems including antennas used in the electromagnetic spectrum for wireless technology in the GHz to THz frequency range It also includes the whole domain of digital communication techniques and its use in modern electronic communication including those in 5G and the forthcoming 6G mobile communication The presentation of the book is in a concise yet complete way and stresses the physical and technical aspects with application view points but using minimum possible mathematics The book Discusses the intricate differences and evolution of GHz i e microwaves to THz devices and circuits including antennas useful for wireless technology in this higher frequency domain of electromagnetic spectrum comparing those with their counter parts at lower RF frequency of KHz to MHz Briefly discusses various wireless systems in the GHz frequency range both analogue and digital like RDAR and radio aids to navigation satellite communication mobile communication GPS and so forth Highlights the need and usefulness of digital communication and covers various digital modulation techniques like PCM ASK FSK PSK QAM and also various analogue and digital multiplexing techniques like FDM TDM CDM OFDM and NOMA useful for modern digital communication Discusses the new and emerging technology of wireless technology at THz frequency covering signal generation waveguide and quasi optic components including sensors and detectors antennas channel modelling T ray imaging and so forth Covers the applications of THz for various emerging new applications like concealed weapon detection CWD standoff detection of explosives and abusive drugs medical application of THz including the use of THz in forthcoming 6G mobile communication etc This overall scenario of developments of wireless technology from GHz to THz frequency domain is expected to attract the interest of students research scholars professionals and even the general readers alike with a new vision to have a quick yet in depth glimpse of the progress of wireless technology in the modern times It is primarily written for senior undergraduate students post graduate students and academic researchers in the fields of electrical engineering electronics and communication



engineering wireless communication telecommunication and computer engineering     Terahertz Frequency Detection and Identification of Materials and Objects R.E. Miles,X.-C. Zhang,H. Eisele,A. Krotkus,2007-09-08 Terahertz frequency sensing has a unique part to play in the detection and identification of materials and objects This frequency range corresponding to a wavelength of around 0.1 mm can be used to identify materials from their molecular spectra and to produce images of concealed objects Terahertz spectra of drugs of abuse and explosives presented by a number of the contributing authors show that the presence of these materials can be detected in envelopes packages and through clothing The technology of terahertz detection 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 Terahertz remote sensing is also discussed with the possibility of detection over distances of up to 30m using existing technology or even through the use THz waves generated locally in the vicinity of a target using only air as the transducer     Breakdown Phenomena In Semiconductors And Semiconductor Devices Michael E Levinshstein,Juha Kostamovaara,Sergey Vainshtein,2005-09-07 Impact ionization avalanche and breakdown phenomena form the basis of many very interesting and important semiconductor devices such as avalanche photodiodes avalanche transistors suppressors sharpening diodes diodes with delayed breakdown as well as IMPATT and TRAPATT diodes In order to provide maximal speed and power many semiconductor devices must operate under or very close to breakdown conditions Consequently an acquaintance with breakdown phenomena is essential for scientists or engineers dealing with semiconductor devices The aim of this book is to summarize the main experimental results on avalanche and breakdown phenomena in semiconductors and semiconductor devices and to analyze their features from a unified point of view Attention is focused on the phenomenology of avalanche multiplication and the various kinds of breakdown phenomena and their qualitative analysis     **Fundamental & Applied Problems Of Terahertz Devices And Technologies: Selected Papers From The Russia-japan-usa Symposium (Rjus Teratech-2014)** Michael S Shur,2015-08-13 This book brings together seven selected best papers presented at the 2014 Russia Japan USA Symposium on Fundamental and Applied Problems of Terahertz Devices and Technologies RJUS TeraTech 2014 which was held at the University of Buffalo New York USA on 17-21 June 2014 As the third in the series of annual meetings RJUS TeraTech 2014 continues to be an excellent platform for researchers to exchange their recent original results and to deal with the technical challenges and barriers of transitioning the research results into the THz system level applications The symposium focuses on 2 main areas namely interaction of THz radiation with micro and nano structures and advanced solid state THz emitters and sensors Leading experts from academia industry and government agencies from three countries including USA Japan and Russia contributed to the collection of research results and developments This book

covering issues ranging from basic THz related phenomena to applications in sensing imaging and communications contains some ground breaking works in the industry and will be a useful reference for device and electronics engineers and scientists

GaN-based Materials and Devices Michael Shur, Robert Foster Davis, 2004 The unique materials properties of GaN based semiconductors have stimulated a great deal of interest in research and development regarding nitride materials growth and optoelectronic and nitride based electronic devices High electron mobility and saturation velocity high sheet carrier concentration at heterojunction interfaces high breakdown field and low thermal impedance of GaN based films grown over SiC or bulk AlN substrates make nitride based electronic devices very promising The chemical inertness of nitrides is another key property This volume written by experts on different aspects of nitride technology addresses the entire spectrum of issues related to nitride materials and devices and it will be useful for technologists scientists engineers and graduate students who are working on wide bandgap materials and devices The book can also be used as a supplementary text for graduate courses on wide bandgap semiconductor technology

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