

# High Speed Devices And Circuits With Thz Applications

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Infrared Components and Their Applications  
Terahertz for Military and Security Applications  
Terahertz Spectroscopy and Applications  
Terahertz for Military and Security Applications II  
High-intensity Terahertz Pulses and Their Applications  
Applications of Digital Image Processing XXIII  
Liquid Crystal Materials, Devices, and Applications  
Surface Plasmon Polaritons at Terahertz Frequencies on Metal and Semiconductor Surfaces  
Applications of Photonic Technology 3  
Terahertz Physics, Devices, and Systems  
Applied Superconductivity 1997: Small scale and electronic applications  
Advanced Materials Research XI  
IEEE ... International Conference on Terahertz Electronics Proceedings  
Infrared to Terahertz Technologies for Health and the Environment  
Terahertz and Gigahertz Electronics and Photonics  
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JJAP Letters  
Ultrafast Phenomena XIII  
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presenting the cutting edge results of new device developments and circuit implementations high speed devices and circuits with thz applications covers the recent advancements of nano devices for terahertz thz applications and the latest high speed data rate connectivity technologies from system design to integrated circuit ic design providing relevant standard activities and technical specifications featuring the contributions of leading experts from industry and academia this pivotal work discusses thz sensing and imaging devices based on nano devices and materials describes silicon on insulator soi multigate nanowire field effect transistors fets explains the theory underpinning nanoscale nanowire metal oxide semiconductor field effect transistors mosfets simulation methods and their results explores the physics of the silicon germanium sige heterojunction bipolar transistor hbt as well as commercially available sige hbt devices and their applications details aspects of thz ic design using standard silicon si complementary metal oxide semiconductor cmos devices including experimental setups for measurements detection methods and more an essential text for the future of high frequency engineering high speed devices and circuits with thz applications offers valuable insight into emerging technologies and product possibilities that are attractive in terms of mass production and compatibility with current manufacturing facilities

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diploma thesis from the year 2003 in the subject electrotechnology grade 1 0 rwth aachen university institut für halbleitertechnik language english abstract this thesis presents the first experimental study of the propagation characteristics and field distribution of surface plasmon polaritons spps at terahertz thz frequencies a measurement setup has been designed which allows the generation demonstration and systematic investigation of spps at flat surfaces of various materials in this chapter a general introduction is given which comprises the different concepts that are involved in the presented experiments after giving a general introduction to electromagnetic interface excitations in section 1 1 a qualitative account of the spp is found in 1 2 in section 1 3 we discuss the peculiarity of the thz frequency range in which experiments have been carried out followed by the conceptual formulation of this thesis including a short summary of the subsequent chapters section 1 4

this collection of papers from the international conference on applications of photonic technology includes articles on a variety of relevant issues and topics

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