



Switchable THz Reflectors

By Rafal Wilk

Cuvillier Verlag Aug 2007, 2007. Taschenbuch. Book Condition: Neu. 211x149x12 mm. Neuware - THz technology which covers the frequency range between 100 GHz and a few THz is placed between optical technology and a high speed electronics. To date, the best method of generation and detection of the THz waves combines both microwave and optical techniques. Ultrashort optical pulses from a femtosecond laser are used to excite short but broad-band transient currents in the photoconductive micro-strip antenna. Within the last two decades, THz technology has experienced tremendous development. Currently a state of the art THz spectrometer based on an ultrafast Ti:Sapphire laser is already well developed and is a commercially available product. But still, due to the high cost of the THz system there are only a few real commercial applications of THz waves. Therefore, alternatives to the most expensive component of the spectrometer, the Ti:Sapphire laser, are needed. Passive components, which are necessary to establish a mature technology are also missing. Switchable mirrors, modulators, filters and switches are essential for the future THz communication and still need to be developed. In this Thesis a novel concept of a switchable narrow-band THz reflector is presented. The development process included a...



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