



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...



READ ONLINE
[4.85 MB]

Reviews

Excellent electronic book and valuable one. Better then never, though i am quite late in start reading this one. I am very easily can get a delight of studying a written book.

-- **Anastacio Kreiger DDS**

This ebook is amazing. It typically will not price excessive. I discovered this pdf from my dad and i recommended this publication to learn.

-- **Rhoda Leffler**