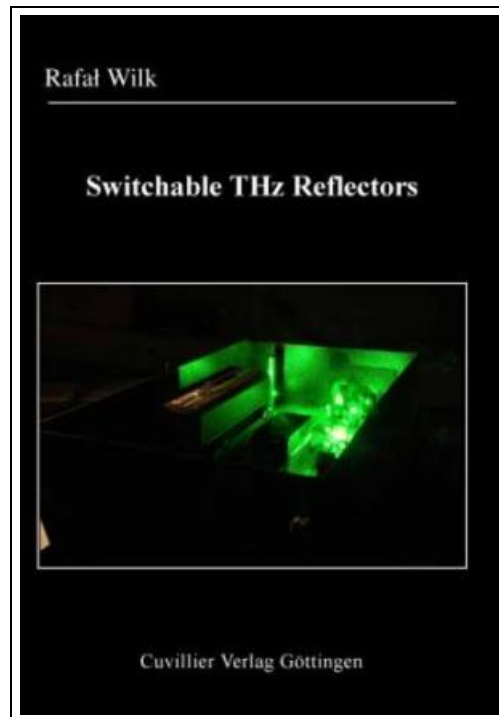


## Switchable THz Reflectors



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## SWITCHABLE THZ REFLECTORS



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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 number of tasks ranging from improvement of existing THz spectrometers, introduction of novel algorithms for THz spectroscopy, exploration of new material systems to the design and practical implementation of the switchable mirrors. All these tasks that often had to be performed in parallel are described in the following chapters. Chapter 2 describes the state-of-the-art THz spectrometers based on the Ti:sapphire fs laser. This pulsed and broad-band THz spectrometer is a very convenient tool for material characterisation, but other examples of its applications are here also discussed. The pioneering contribution to the THz technology presented in this Chapter is the introduction...



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