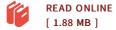


## Manipulating Light with Fibre Bragg Gratings

## By Yu, Zhangwei

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Nanosecond Switching Using In-Fibre Electrodes and Ultra-Narrow Filtering of Millimetre-wave Signals | FBGs are key components for a vast number of applications in optical communications, microwavephotonics systems and optical sensors. This book isabout FBGs applications in direct microwave opticalfiltering and high speed switching. A comparison ismade between the extensively researched incoherentoptical filters and a technique based on a directspectral filtering of microwave signals transmittedoptically. The example of a double-peakedsuperimposed FBG used in reflection is analysed toillustrate the latter technique, which can be used inRoF systems. The main focus of the book is onresearch of a new class of photonic devices, wheregratings are rendered active in fibres with internalelectrodes. Electric control of light in fibres isexploited in dynamic measurements in the nanosecondregime. Numerical simulations give accuratedescription of the physics behind the birefringenceswitching process. Such grating devices havepotential application in Q-switched fibre lasers andother fields, and are bound to be widely exploited inthe near future. This book will be of specialinterest for professionals or researchers working onRoF systems and photonic devices. | Format: Paperback | Language/Sprache: english | 92 pp.



## Reviews

This publication is indeed gripping and interesting. It is rally exciting through reading period of time. I am just happy to inform you that this is the very best publication i actually have go through during my individual existence and could be he finest pdf for ever. -- Miss Lela VonRueden

This ebook is fantastic. It is actually writter in straightforward terms rather than hard to understand. Its been designed in an extremely straightforward way and it is merely soon after i finished reading through this ebook through which in fact modified me, alter the way i really believe. -- Justice Wilderman

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