

WAVEGUIDE NONLINEAR OPTIC DEVICES%0A

Download PDF Ebook and Read Online Waveguide Nonlinear Optic Devices%0A. Get **Waveguide Nonlinear Optic Devices%0A Waveguide Nonlinear Optic Devices Toshiaki Suhara Springer** Nonlinear-optic (NLO) effects provide many device functions such as wavelength conversion and signal processing. The use of waveguides allows the implementation of efficient and compact devices. This book presents a systematic description of this area with an emphasis on devices that use ferroelectric waveguides. The earlier chapters give an introduction on the concepts of waveguides, NLO devices, coupled-mode formalism- and phase matching. Then, various NLO interactions and the related

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Nonlinear-optic (NLO) effects provide many device functions such as wavelength conversion and signal processing. The use of waveguides allows the implementation of efficient and compact devices.

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Waveguide Nonlinear Optic Devices for Optical Communications

Waveguide-type quasi-phase matched (QPM) nonlinear-optic devices offer numerous applications in optoelectronics area. Wavelength converters based on QPM difference frequency generation (DFG) have

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Phase matching and nonlinear optical processes in silicon

2. Non-linear processes in SOI waveguides In silicon there are two main sources of 3rd order nonlinear optical response. The nonlinear response of the electrons to the optical field (electronic non-resonant susceptibility) [5], and

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Research on nonlinear optics has been performed, since soon after the invention of lasers in 1960. The responses of materials to an optical field, such as dielectric polarization and absorption

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Waveguide Nonlinear Optic Devices Toshiaki Suhara

Nonlinear-optical (NLO) effects make possible devices that perform many functions, such as wavelength conversion and signal processing, while waveguides enable the devices to be both efficient and compact.

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OSA Si wire waveguide nonlinear optic devices with

Spectral broadening of optical pulses based on the nonlinear effect in Si-wire waveguides was demonstrated for the first time. Spectra of 2-ps optical pulses from a mode-locked laser-diode were obviously broadened in a 4-mm-long device.

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Most Optical Waveguide devices operate by controlling the reactive component of the susceptibility $\text{Re}(\chi)$, rather than the resistive component $\text{Im}(\chi)$. There is a good reason for this, at least at this stage of nonlinear-optical-material development. Any nonlinear loss component has associated with it a linear loss component which produces unavoidable absorption. More seriously, the loss is

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Dichroic mirror embedded in a submicrometer waveguide for

Dichroic mirror embedded in a submicrometer waveguide for enhanced resonant nonlinear optical devices Luigi Scaccabarozzi and M. M. Fejer Department of Applied Physics, Stanford University, Stanford, California 94305

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A review on pedestal waveguides for low loss optical

Finally, another research field that could benefit greatly in the near future from this new architecture is the integrated nonlinear optics as the pedestal waveguide fabrication technology opens up the possibility of using novel materials with high optical nonlinear susceptibilities.

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OSA Nonlinear waveguide optics and photonic crystal fibers

Abstract. Optical fibers and waveguides provide unique and distinct environments for nonlinear optics, because of the combination of high intensities, long interaction lengths, and control of the propagation constants.

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The most comprehensive book on waveguide nonlinear optic devices, this volume presents a systematic description of the NLO field, with an emphasis on devices that use ferroelectric waveguides. It ranges from an introduction to the concepts of waveguides to the most recent experimental results.

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US4515429A Nonlinear and bistable optical waveguide

Several types of nonlinear characteristics are provided in an optical device wherein at least two optical materials are constructed to provide a waveguide structure. At least one of the materials has a dominant nonlinear characteristic over the length of the waveguide that is commonly referred to as the Kerr effect. The index of refraction in

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Optical bandgap engineering in nonlinear silicon nitride

Optical bandgap engineering in nonlinear silicon nitride waveguides CLEMENS J. KR CKEL,* ATTILA F L P, ZHICHAO YE, PETER A. ANDREKSON, AND VICTOR TORRES-COMPANY

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