Abstracts

Magnetostatic Waves-Based Integrated Optic Device Modules and Applications to Communications and Signal Processsings

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In this paper an up-to-date progress report on wideband magnetooptic interactions between guided-optical waves and magnetostatic waves, the resulting device modules, and applications to communications and signal processing is given. First, the technique for realization of GHz bandwidth magnetooptic Bragg cells with electronically tunable center frequency and their applications to wideband light beam scanning and switching, and RF spectral analysis are described. The design, fabrication, and performance characteristics of ion-milled waveguide lenses and the resulting magnetostatic waves-based integrated optic device modules are then presented.

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