Abstracts

Nonreciprocal Magnetooptic Waveguides

J. Warner. "Nonreciprocal Magnetooptic Waveguides." 1975 Transactions on Microwave Theory and Techniques 23.1 (Jan. 1975 [T-MTT] (Special Issue on Integrated Optics and Optical Waveguides)): 70-78.

The longitudinal magnetooptic effect can be used in a unique way to mix TE and TM modes of a planar dielectric waveguide where the strength of mixing is dependent upon propagation direction (forwards or reverse). A detailed study of Faraday effect circulators in optical dielectric waveguides is presented and accurate design data for a practical version are offered. At this writing, experimental confirmation has been hampered by lack of success in optically contacting two dissimilar materials.

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