Abstracts

Coupled-Mode Theory Analysis of Distributed Nonreciprocal Structures

A general coupled-mode theory is developed for dielectric waveguide structured containing a gyrotropic layer. The theory applied is to several specific structures. Based on qualitative and numerical analysis, we studied the feasibility of such structures as the new type of nonreciprocal devices for millimeter-wave applications. A number of considerations for practical design are included.

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