

Abstracts

Analysis of a Coupled Slotline on a Double-Layered Substrate Containing a Magnetized Ferrite (Short Papers)

M. Geshiro and T. Itoh. "Analysis of a Coupled Slotline on a Double-Layered Substrate Containing a Magnetized Ferrite (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.4 (Apr. 1992 [T-MTT]): 765-768.

Nonreciprocity in the propagation characteristics of the even and odd modes in magnetized-ferrite-loaded double-layered coupled slotlines is studied. The analysis is based on Galerkin's method applied in the Fourier transform domain. Numerical results are presented for various values of structural parameters. As a result, it is found that the waveguide structures studied have sufficient nonreciprocity in propagation constants for isolators and four port circulators.

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