

Abstracts

The Modal Spectrum of a Lossy Ferromagnetic Slab

F. Bardati and P. Lampariello. "The Modal Spectrum of a Lossy Ferromagnetic Slab." 1979 Transactions on Microwave Theory and Techniques 27.7 (Jul. 1979 [T-MTT]): 679-688.

The propagation of electromagnetic waves on a lossy ferrimagnetic slab is considered. Direction of propagation, dc external magnetic field and surface normals are assumed at right angles. Modal curves, assuming the width of the slab and the frequency as parameters, are presented. In general, the modes corresponding to propagating as well as attenuating waves are confined to the vicinity of the slab in a frequency range greater than is the case for no magnetic losses. Magnetostatic and half-space approximations are discussed.

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