

Abstracts

Modes in Rectangular Guides Loaded with a Transversely Magnetized Slab of Ferrite Away from the Side Walls

G. Barzilai and G. Gerosa. "Modes in Rectangular Guides Loaded with a Transversely Magnetized Slab of Ferrite Away from the Side Walls." 1961 Transactions on Microwave Theory and Techniques 9.5 (Sep. 1961 [T-MTT]): 403-408.

The characteristic equation describing the general modal spectrum for a rectangular guide partially fined with a slab of ferrite transversely magnetized and situated away from the side walls is derived. This equation is numerically solved for particular cases and for modes of zero and first order with respect to the dependence along the direction of the dc magnetic field. Some experiments to verify the theoretical results are presented and show good agreement with the theory.

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