Abstracts

Propagation in Arbitrarily Magnetized Ferrites Between Two Conducting Parallel Planes

H. Unz. "Propagation in Arbitrarily Magnetized Ferrites Between Two Conducting Parallel Planes." 1963 Transactions on Microwave Theory and Techniques 11.3 (May 1963 [T-MTT]): 204-210.

The electromagnetic waves propagating in arbitrarily magnetized homogeneous ferrites between two perfectly conducting parallel planes have been investigated by using the operational calculus method. The discrete propagation constants and the eigenvalues are to be determined from an algebraic equation of the fourth order and a determinantal equation derived from the boundary conditions. The hybrid modes thus found degenerate to the solutions already found for the particular cases of longitudinally and transversely (parallel and perpendicular to boundaries) magnetized ferrite cases.

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