

Abstracts

Propagation in Ferrite-Filled Transversely Magnetized Waveguide

P.H. Vartanian and E.T. Jaynes. "Propagation in Ferrite-Filled Transversely Magnetized Waveguide." 1956 Transactions on Microwave Theory and Techniques 4.3 (Jul. 1956 [T-MTT]): 140-143.

A solution to the problem of propagation of higher modes in a transversely magnetized ferrite-filled rectangular waveguide has been found. The solutions to the problem are expressed in the form of four rigorous nonlinear algebraic equations which characterize the problem and are ready for numerical solution. The dependence of the fields in the direction of magnetization is the same as for the classical modes.

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