

Abstracts

Microwave Properties of a Rectangular Waveguide Semi-Infinitely Filled with Magnetic Material (Correspondence)

K.C. O'Brien. "Microwave Properties of a Rectangular Waveguide Semi-Infinitely Filled with Magnetic Material (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.7 (Jul. 1970 [T-MTT]): 400-402.

An infinite, lossless, rectangular waveguide semi-infinitely filled with a transversely magnetized magnetic material is discussed. With the limitation that only TE/sub no/ modes are incident, an analytic solution for the transmitted and reflected energies is presented. Numerical computations near resonance are presented both for a ferrite and an easy-axis antiferromagnet.

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