

Abstracts

Propagation in Rectangular Waveguide Partially Filled with an Inhomogeneous Dielectric (Correspondence)

G. Gonzalez and D.C. Stinson. "Propagation in Rectangular Waveguide Partially Filled with an Inhomogeneous Dielectric (Correspondence)." 1969 Transactions on Microwave Theory and Techniques 17.5 (May 1969 [T-MTT]): 284-286.

A closed form solution for the TE_{sub 10} mode in a rectangular waveguide partially filled with an inhomogeneous dielectric is obtained. The inhomogeneous dielectric is assumed to vary exponentially in one transverse direction. A graphical technique for obtaining the cutoff frequencies is given. The longitudinal section magnetic mode (LSM) is briefly considered.

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