

# 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 lo/ 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.

 [Return to main document.](#)