Abstracts

Analysis of Lossy Inhomogeneous Waveguides Using Shooting Methods (Short Papers)

R.E. McIntosh and L.J. Turgeon. "Analysis of Lossy Inhomogeneous Waveguides Using Shooting Methods (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.11 (Nov. 1974 [T-MTT]): 952-954.

Shooting methods are used to analyze rectangular waveguides containing inhomogeneous lossy dielectrics. The technique obtains the electromagnetic fields inside the waveguide by solving Maxwell's equations using trial and error procedures to match the boundary conditions at the conducting waveguide surface. Dispersion and attenuation curves are obtained which show how continuous dielectric inhomogeneities and losses affect the transmission characteristics of these waveguides.

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