

Abstracts

On Inhomogeneously Filled Rectangular Waveguides (Short Papers)

K.F. Cafsey. "On Inhomogeneously Filled Rectangular Waveguides (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.8 (Aug. 1973 [T-MTT]): 566-567.

A method is given for determining the characteristic equations and field components of the LSE and LSM modes in rectangular waveguides filled with a dielectric which is inhomogeneous in one transverse dimension. The method is exact and yields solutions for a nearly arbitrary variation in permittivity across the waveguide.

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