

Abstracts

Slotted Line Measurements for Propagation Constant in Lossy Waveguide (Short Papers)

F.E. Gardiol. "Slotted Line Measurements for Propagation Constant in Lossy Waveguide (Short Papers)." 1975 Transactions on Microwave Theory and Techniques 23.3 (Mar. 1975 [T-MTT]): 317-319.

The propagation coefficient in a slotted waveguide partially loaded with a lossy dielectric can be determined accurately, in terms of the measured standing-wave pattern, by means of a computer program solving a set of transcendental equations. This determination is a necessary step in a permittivity measurement technique which was recently proposed by several authors.

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