

Abstracts

Broad-Band Permittivity Measurements Using the Semi-Automatic Network Analyzer (Short Papers)

J. Ness. "Broad-Band Permittivity Measurements Using the Semi-Automatic Network Analyzer (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.11 (Nov. 1985 [T-MTT]): 1222-1226.

This paper outlines the use of the network analyzer to measure the dielectric properties of materials over a broad frequency range. The method described here is based on transmission techniques with simple procedures for obtaining initial estimates and unambiguous solutions for the dielectric parameters. A further feature is that this measurement technique provides a degree of self-checking for inconsistent results.

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