

Abstracts

Permittivity Measurement of Modified Infinite Samples by a Directional Coupler and a Sliding Load (Short Papers)

D.K. Misra. "Permittivity Measurement of Modified Infinite Samples by a Directional Coupler and a Sliding Load (Short Papers)." 1981 Transactions on Microwave Theory and Techniques 29.1 (Jan. 1981 [T-MTT]): 65-67.

A cross coupler and waveguide sliding short technique for measuring the permittivity of an infinite sample is described in this paper. The experimental results obtained for commercially available cement, wheat flour, magnesium oxide, potassium bromide, glycerin, and water are given together with the estimated error. In view of the growing industrial use of microwaves, moisture dependent epsilon-values for cement and wheat flour are also reported.

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