

Abstracts

Metrological Application of a Stationarity Property in Rectangular Cavities Containing a Dielectric Slab (Short Papers)

C.E. Eugene. "Metrological Application of a Stationarity Property in Rectangular Cavities Containing a Dielectric Slab (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.12 (Dec. 1973 [T-MTT] (1973 Symposium Issue)): 847-850.

A stationarity property for the resonant frequency of a rectangular cavity as a function of the thickness of a low-loss dielectric slab inserted within is used for the accurate determination of the microwave permittivity of the sample. The accuracy estimated to a few promille in X band has been confirmed by experimentation on a standard material.

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