Abstracts

Non Destructive Resonant Technique for the Measurement of Complex Permittivity -- Theoretical Analysis and Experimental Results

M.C. Decreton and M.S. Ramachandraiah. "Non Destructive Resonant Technique for the Measurement of Complex Permittivity -- Theoretical Analysis and Experimental Results." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 100-102.

A simple non-destructive method to measure the complex permittivity of materials is described. It uses an iris terminated resonant section of waveguide in contact with the metal-backed sample. A numerical analysis of the structure permits one to relate the measured resonance characteristics to the sample permittivity.

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