

Automatic Permittivity Measurements in a Wide Frequency Range: Application to Anisotropic Fluids (Short Papers)

J.P. Parneix, C. Legrand and S. Toutain. "Automatic Permittivity Measurements in a Wide Frequency Range: Application to Anisotropic Fluids (Short Papers)." 1982 Transactions on Microwave Theory and Techniques 30.11 (Nov. 1982 [T-MTT]): 2015-2017.

In this paper a new dielectric measurements method in the range 200 MHz-18 GHz is reported. The main features of the system are the following: a) automatic determination of the sample complex permittivities for each step of frequency previously chosen by using a numerical process; b) cells requiring only a very small sample volume (typically lower than .1 cm³); and c) cell structure allowing the dielectric characterization of anisotropic substances.

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