

Abstracts

Complex Permittivity Instrumentation for High-Loss Liquids at Microwave Frequencies (Short Papers)

H.A. Buckmaster, C.H. Hansen and H. Zaghloul. "Complex Permittivity Instrumentation for High-Loss Liquids at Microwave Frequencies (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.9 (Sep. 1985 [T-MTT]): 822-824.

This note draws attention to the fact that the instrumentation system for the measurement of the complex permittivity of high-loss liquids proposed by Zanforlin can be improved so as to i) increase the sensitivity and stability of the demodulation process, ii) make the demodulation accurately linear rather than approximately square law, and iii) improve the degree of bridge balance and stability.

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