Abstracts

A Resonance Method for Measurement of Large Dielectric Constant with Small Loss (Correspondence)

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In 1961 Bell and Rupprecht reported a resonance method for measurement of small dielectric losses as a function of temperature at constant frequency. Recently Gastine et al., have determined the complex frequencies required to make a sphere of known material resonate and confirmed their results by measurements. The purpose of this correspondence is to demonstrate that a large dielectric constant with small loss can be easily determined as a function of frequency from the resonant frequencies which can be readily measured.

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