

Abstracts

Electromagnetic Analysis of Composite Coaxial Cells for Wideband Measurements of Highly Dispersive Materials

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In this paper, a new transmission line matrix node is proposed for electromagnetic analysis of a composite coaxial cell which is used to characterize highly dispersive materials over a large frequency band. A variety of measurements using such a coaxial line cell have been done with different liquid samples to verify the wide-band characteristics. It is shown that theoretical and experimental results have a very good agreement.

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