

Abstracts

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

J. Huang, K. Wu, P. Morin and C. Akyel. "Electromagnetic Analysis of Composite Coaxial Cells for Wideband Measurements of Highly Dispersive Materials." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 813-816.

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.

[Return to main document.](#)