

Abstracts

Measuring Complex Dielectric Constant of Dielectric Slab-Coated Conductors in Millimeter Waves by Radiating Technique

L. Guoding, S. Qing and S. Changsheng. "Measuring Complex Dielectric Constant of Dielectric Slab-Coated Conductors in Millimeter Waves by Radiating Technique." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. 1 [MWSYM]): 435-438.

This paper describes a novel method for determining complex dielectric constant of dielectric slab-coated conductors. The constant may be found by measuring an angle $\Theta_{sub m}$ of maximum radiation and two radiation angles $\Theta_{sub 1h}$, $\Theta_{sub 2h}$ of half peak power from the leaky wave antenna. The method is specially useful for millimeter waves and can realize automatical measurement.

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