

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

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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 Θ_m of maximum radiation and two radiation angles Θ_{1h} , Θ_{2h} of half peak power from the leaky wave antenna. The method is specially useful for millimeter waves and can realize automatic measurement.

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