

Abstracts

Application of Inverted Strip Dielectric Waveguides for Measurement of the Dielectric Constant of Low-Loss Materials at Millimeter-Wave Frequencies

T. Itoh and F.-J. Hsu. "Application of Inverted Strip Dielectric Waveguides for Measurement of the Dielectric Constant of Low-Loss Materials at Millimeter-Wave Frequencies." 1979 Transactions on Microwave Theory and Techniques 27.10 (Oct. 1979 [T-MTT]): 841-844.

An entirely new method for measuring dielectric properties of slab-type materials is developed by using a novel dielectric waveguide structure originally designed for millimeter-wave integrated circuits. The method entails the measurement of the stopband of the grating structure created in the dielectric waveguide. Several examples of measurement results are reported.

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