Abstracts

Characterization of Resistive Transmission Lines by Short-Pulse Propagation (Comments and Reply)

D.F. Williams and R.B. Marks. "Characterization of Resistive Transmission Lines by Short-Pulse Propagation (Comments and Reply)." 1992 Microwave and Guided Wave Letters 2.8 (Aug. 1992 [MGWL]): 346-347.

In the above letter, the authors report measurements of the complex propagation constant gamma of a coplanar waveguide and the application of Gamma to the determination of the characteristic impedance. The authors state that "the same information could, in principle, be obtained with a network analyzer" by the method described in [1]. In fact, these measurements were reported in [1]. Furthermore, the bandwidth of the network analyzer method is broad, with [1] reporting an upper limit of 40 GHz² well above the 25-GHz limit reported in the letter.

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