Abstracts

Attenuation Distortion of Transient Signals in Microstrip (Short Papers)

T. Leung and C.A. Balanis. "Attenuation Distortion of Transient Signals in Microstrip (Short Papers)." 1988 Transactions on Microwave Theory and Techniques 36.4 (Apr. 1988 [T-MTT]): 765-769.

Attenuation distortion, and combinations of dispersion and attenuation distortions, of transient signals in microstrip lines are investigated. Conduction losses are considered for the general case where the strip conductor resistivity is different from that of the ground plane. Dielectric losses are examined for commonly used isotropic substrates. Attenuation and dispersion distortions of short pulses are shown to vary as microstrip and pulse parameters are changed.

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