

Abstracts

Dispersion of Picosecond Pulses in Coplanar Transmission Lines (Short Papers)

G. Hasnain, A. Dienes and J.R. Whinnery. "Dispersion of Picosecond Pulses in Coplanar Transmission Lines (Short Papers)." 1986 Transactions on Microwave Theory and Techniques 34.6 (Jun. 1986 [T-MTT]): 738-741.

The dispersion of coplanar-type transmission lines has been extended to the terahertz regime to examine the distortion of picosecond electrical pulses. Dispersion of coplanar waveguides is compared to equivalent microstrip lines. Agreement with available experimental data is demonstrated for coplanar strips. An approximate dispersion formula for coplanar waveguides is also reported for CAD applications.

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