Abstracts

Transient Coupling Reduction in Edge-Coupled Coplanar Waveguide Forward Directional Couplers

M.R. Lyons and C.A. Balanis. "Transient Coupling Reduction in Edge-Coupled Coplanar Waveguide Forward Directional Couplers." 1994 MTT-S International Microwave Symposium Digest 94.3 (1994 Vol. III [MWSYM]): 1685-1688.

Picosecond pulse propagation is studied in symmetric, edge-coupled, coplanar waveguide (CPW) forward directional couplers. Frequency dependent even-and odd-mode effective dielectric constants are found that exactly equalize for specific multi-layer substrate height configurations at a given frequency. Results of transient coupling reduction are presented in a multi-layer compensated structure.

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