Abstracts

Generalized Spectral Domain Analysis of Planar Steuctuees Having Semi-Infinite Ground Planes

H. Lee and V.K. Tripathi. "Generalized Spectral Domain Analysis of Planar Steuctuees Having Semi-Infinite Ground Planes." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 327-329.

Accurate, efficient techniques that utilize the general Galerkin's method in Fourier transform domain are formulated to compute the quasi-TEM parameters of planar structures having semiinfinite strips. Examples include coplanar waveguides with and without the conductor backing and microstrips with a parallel slot in the ground plane. Computed results for typical cases of symmetrical, nonsymmetrical, single and multiple strip coplanar waveguide and microstrip-slot structures are presented.

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