Abstracts

Fourier Transformed Matrix Method of Finding Propagation Characteristics of Complex Anisotropic Layered Media (1984 [MWSYM])

C.M. Krowne. "Fourier Transformed Matrix Method of Finding Propagation Characteristics of Complex Anisotropic Layered Media (1984 [MWSYM])." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 65-67.

A structure having arbitrarily located conductor lines immersed in complex anisotropic layered media presents one with a very general guided wave problem. This problem is solved here by a rigorous formulation technique characterizing each layer by a 6 x 6 constitutive tensor and finding the appropriate Fourier transformed Green's function matrix G. From G a method of moments solution for the propagation characteristics follows including propagation constant eigenvalues and field eigenvectors at all spatial locations.

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