

Abstracts

A Generalized Dispersive Analysis of Integrated Circuit Transmission Line Structures on Anisotropic Substrates

A.G. D'Assuncao, M.R.G. Maia, D.A. Rogers and A.J. Giarola. "A Generalized Dispersive Analysis of Integrated Circuit Transmission Line Structures on Anisotropic Substrates." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 331-332.

A spectral domain analysis of planar transmission lines on anisotropic layers is performed. The dielectric layers are assumed to be uniaxial anisotropic. The Hertz potentials and the Galerkin method are used to obtain the propagation characteristics for single and coupled microstrip lines on single and double layers and for bilateral fin-lines.

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