

Abstracts

The Method of Lines for the Analysis of Planar Waveguides Having Uniaxially Anisotropic Substrates

B.M. Sherrill and N.G. Alexopoulos. "The Method of Lines for the Analysis of Planar Waveguides Having Uniaxially Anisotropic Substrates." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. 1 [MWSYM]): 327-329.

The efficient Method of Lines is formulated for the dispersive characterization of planar waveguide structures having uniaxially anisotropic dielectric substrates. This new formulation is exercised upon a configuration of fin-line, one with a substrate bearing an isolated strip opposite a fin. Numerical results follow displaying the importance of heeding anisotropy in modeling.

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