Abstracts

Uniaxial and Biaxial Substrate Effects on Finline Characteristics

H.-Y. Yang and N.G. Alexopoulos. "Uniaxial and Biaxial Substrate Effects on Finline Characteristics." 1987 Transactions on Microwave Theory and Techniques 35.1 (Jan. 1987 [T-MTT]): 24-29.

The effect of uniaxial and biaxial substrates on the frequency-dependent properties of a bilateral finline is investigated in this article. The finline characteristics are obtained by using the spectral-domain procedure in conjunction with the Galerkin method. Investigation of uniaxial substrates indicates that there is a particular optical axis direction for which the permittivity component in that direction dominates the finline behavior. In addition, a study has been carried out which determines the error which results when the material layer anisotropy is neglected.

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