Abstracts

Analysis of Two-Layer Three-Coupled Microstrip Lines on Anisotropic Substrates (Short Papers)

C. Seo and C.W. Lee. "Analysis of Two-Layer Three-Coupled Microstrip Lines on Anisotropic Substrates (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.1 (Jan. 1994 [T-MTT]): 160-162.

Two-layer three-coupled microstrip lines on anisotropic subtrates are analyzed. A variational method used for a single layer is generalized here to two layers by obtaining potential distributions. Extreme values of two variational functional are found for the estimation of the upper and lower bounds on the line capacitance. The odd and even mode capacitances and characteristic impedances are obtained. The extended spectral domain method is used to show a very accurate propagation constant for the full-wave analysis.

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