Abstracts

Analysis of Bilateral Fin-Lines on Anisotropic Substrates (Short Papers)

T.Q. Ho and B. Beker. "Analysis of Bilateral Fin-Lines on Anisotropic Substrates (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.2 (Feb. 1992 [T-MTT]): 405-409.

A full-wave analysis of the bilateral fin-line on anisotropic substrates is presented. The supporting medium is characterized simultaneously by both nondiagonal second rank [epsilon] and [μ] tensors. The dyadic Green's function is formed rigorously in the discrete Fourier transformed domain and is used to study the propagation characteristics of the fin-line, The Green's function elements are given explicitly in their closed forms along with the verification of the theory. New data describing the dispersion properties as functions of the coordinate misalignment are also generated for several substrate materials.

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