Abstracts

Non-Uniform Finlines on Anisotropic Substrates

Serious errors occur in the analysis of quasi-planar circuits, particulary at millimeter wavelengths, if the anisotropy of the substrates is neglected. This paper addresses the problem of non-uniform finlines (tapered sections) on anisotropic substrates. A solution of the generalized telegraphist's equation is described which takes into account the second - order effects such as dielectric and magnetic losses, finite metallization thickness and substrate mounting grooves. Numerical and experimental data are presented and compared.

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