Abstracts

Variational Method for Multiconductor Coupled Striplines with Stratified Anisotropic Media

The applicability of the variational method is extended to the general structure of multiconductor coupled striplines with stratified uniaxially anisotropic substrates. Numerical examples are presented for the propagation constants as well as the characteristic impedances of various types of multicoupled striplines. Numerical computations are performed very accurately to provide sufficient precision even for tight coupling between strips of the multiconductor system; the basis functions used in the calculation are increased up to ten. Accurate numerical results reveal the mode coupling in the multimode propagation.

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