Abstracts

Full-Wave Analysis of Coupled Finline Discontinuities (Short Papers)

G. Schiavon, P. Tognolatti and R. Sorrentino. "Full-Wave Analysis of Coupled Finline Discontinuities (Short Papers)." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1889-1894.

The general discontinuity problem of coupled finline sections is considered. Coupling may occur either along the sides of the slots (parallel coupled finlines) or through their ends (end-coupled finlines). A particular case is the inductive strip discontinuity already addressed in the literature. The analysis is carried out expanding the fields in terms of TE and TM modes in the transverse direction, according to the generalized transverse resonance method. End effects in coupled finline sections are pointed out. Computed results are in good agreement with both data from the literature and first experiments.

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