

Abstracts

Quasi-Static Characteristics of Asymmetrical and Coupled Coplanar-Type Transmission Lines

T. Kitazawa and R. Mittra. "Quasi-Static Characteristics of Asymmetrical and Coupled Coplanar-Type Transmission Lines." 1985 Transactions on Microwave Theory and Techniques 33.9 (Sep. 1985 [T-MTT]): 771-778.

In this paper, variational expressions for the capacitances of asymmetrical and coupled coplanar-type transmission lines are derived. The methods employed are quite general, and are useful for analyzing various types of coplanar-type transmission lines, with either an isotropic or anisotropic substrate. An accurate and efficient method of calculation is provided for the variational expressions, and some numerical results are presented.

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