Abstracts

Metallization Thickness Effect of Striplines with Anisotropic Media: Quasi-Static and Hybrid-Mode Analysis

T. Kitazawa. "Metallization Thickness Effect of Striplines with Anisotropic Media: Quasi-Static and Hybrid-Mode Analysis." 1989 Transactions on Microwave Theory and Techniques 37.4 (Apr. 1989 [T-MTT]): 769-775.

The effect of metallization thickness in striplines is investigated on the basis of the quasi-static and frequency-dependent hybrid-mode formulations. The formalism utilizes the aperture fields as source quantities and employs the extended version of the network analytical methods of electromagnetic fields. It is therefore applicable for the general structure, i.e., coupled thick strips with uniaxially anisotropic media. Numerical computations include comparisons with available data for the simpler cases to show the accuracy of the present method and the quasi-static and frequency-dependent hybrid-mode solutions for single and coupled thick strips with anisotropic media.

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