

Abstracts

Loss Calculation of Single and Coupled Strip Lines by Extended Spectral Domain Approach

T. Kitazawa. "Loss Calculation of Single and Coupled Strip Lines by Extended Spectral Domain Approach." 1993 Microwave and Guided Wave Letters 3.7 (Jul. 1993 [MGWL]): 211-213.

The extended spectral domain approach is used to calculate the losses of the strip lines of arbitrary thickness. This versatile method is applicable to single and coupled strip lines with isotropic and/or anisotropic substrates. Both the simpler quasistatic and the rigorous hybrid-mode formulation can be developed on the same basis. Numerical examples presented include loss calculations of the strip lines with thick, as well as thin conductors, where thickness is comparable to or less than the skin depth. Numerical results also reveal the usefulness and the limitation of the quasistatic analyses.

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