Abstracts

2-D analysis of leakage in printed-circuit lines using discrete complex-images technique

J. Bernal, F. Mesa and F. Medina. "2-D analysis of leakage in printed-circuit lines using discrete complex-images technique." 2002 Transactions on Microwave Theory and Techniques 50.8 (Aug. 2002 [T-MTT]): 1895-1900.

The mixed-potential integral equation is combined with the discrete complex-images technique to analyze the complete spectrum of multilayered printed transmission lines. A relevant contribution of the present two-dimensional approach is its ability to study both the bound and leaky regimes in a very simple, systematic, and efficient way. Since the analysis is carried out in the spatial domain, this method makes it possible to analyze the leakage phenomenon for structures with nonzero-thickness conductors. Efficient quasi-analytical techniques are employed to solve the integral equation.

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