

Abstracts

Analysis of Shielded Striplines and Finlines with Finite Metallization Thickness Containing Magnetized Ferrites

T. Kitazawa. "Analysis of Shielded Striplines and Finlines with Finite Metallization Thickness Containing Magnetized Ferrites." 1991 Transactions on Microwave Theory and Techniques 39.1 (Jan. 1991 [T-MTT]): 70-74.

The applicability of the spectral-domain approach is extended to analyze various types of shielded planar transmission lines, taking the anisotropy of the magnetized ferrites and the finite metallization thickness into consideration. The numerical computations include the propagation characteristics of finlines and striplines and the metallization thickness effect in these lines. Numerical data of simpler structures are compared with the available exact solution as well as with published data.

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