Abstracts

An Improved Iterative Technique for the Quasi-TEM Analysis of Generalized Planar Lines

E. Drake, F. Medina and M. Horno. "An Improved Iterative Technique for the Quasi-TEM Analysis of Generalized Planar Lines." 1992 Transactions on Microwave Theory and Techniques 40.4 (Apr. 1992 [T-MTT]): 652-658.

The Generalized Bioconjugate Gradient Method (GBGM) and FFT algorithms are used for the quasi-TEM analysis of generalized multistrip lines embedded in multilayered lossless/lossy, iso/anisotropic dielectric and/or magnetic media. Important computational improvement is achieved by including asymptotic extraction techniques in the determination of the spatial Green's function matrix. Comparisons with other iterative procedures are presented. Several practical structures are analyzed and numerical results are compared with previously published data.

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