# Abstracts

## Full-Wave Analysis of Multilayer Coplanar Lines (Short Papers)

*C.-N. Chang, W.-C. Chang and C.H. Chen. "Full-Wave Analysis of Multilayer Coplanar Lines (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.4 (Apr. 1991 [T-MTT]): 747-750.*

A full-wave analysis of a coplanar wave-guiding structure with multiple dielectric layers is presented. In this study, the results of the hybrid approach that combines the finite-element method and the conformal-mapping technique are compared with those of the spectral-domain approach. Numerical results for effective dielectric constants, characteristic impedances, current distributions, and field distributions for various multilayer coplanar line structures are presented and discussed. Comparisons are also made of the computed results with the available quasi-static ones.

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