

Abstracts

Accurate Characterization and Modeling of Transmission Lines for GaAs MMIC's

H.J. Finlay, R.H. Jansen, J.A. Jenkins and I.G. Eddison. "Accurate Characterization and Modeling of Transmission Lines for GaAs MMIC's." 1988 Transactions on Microwave Theory and Techniques 36.6 (Jun. 1988 [T-MTT]): 961-967.

The benefit of the spectral-domain hybrid mode approach in the design of multielectric-media transmission lines is described. Using GaAs ring resonator techniques covering 2 to 24 GHz, accuracies in effective dielectric constant and loss of 1 percent and 15 percent respectively, are presented. By combining theoretical and experimental techniques, a generalized MMIC microstrip design data base is outlined.

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