

Accurate Characterisation and Modelling of Transmission Lines for GaAs MMICs

H.J. Finlay, R.H. Jansen, J.A. Jenkins and I.G. Eddison. "Accurate Characterisation and Modelling of Transmission Lines for GaAs MMICs." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 267-270.

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

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