

Abstracts

A Novel Method for Modeling Coupling Between Several Microstrip Lines in MIC's and MMIC's

D.G. Swanson, Jr.. "A Novel Method for Modeling Coupling Between Several Microstrip Lines in MIC's and MMIC's." 1991 Transactions on Microwave Theory and Techniques 39.6 (Jun. 1991 [T-MTT]): 917-923.

This paper presents a novel technique for modeling the adjacent and nonadjacent couplings between several microstrip lines. The technique assumes that the primary transmission paths in the circuit can be modeled with conventional single or coupled microstrip models. A new four-port model is then superimposed on the existing circuit for each adjacent or nonadjacent coupling that is present. The new model uses analytical equations for microstrip coupled lines and is, therefore, fast and easy to compute.

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