Abstracts

Electromagnetic Coupling and Radiation Loss Considerations in Microstrip (M)MIC Design

W.P. Harokopus, Jr. and L.P.B. Katehi. "Electromagnetic Coupling and Radiation Loss Considerations in Microstrip (M)MIC Design." 1991 Transactions on Microwave Theory and Techniques 39.3 (Mar. 1991 [T-MTT]): 413-421.

The high-frequency characterization of microstrip meander lines, junctions, and stubs has been performed by the application of the method of moments to the electric field integral equation. Electromagnetic coupling, radiation, and substrate effects are inherently included with the use of the space-domain Green's function. Conductor loss is also included by replacing the conductive strips with appropriate surface impedance boundaries.

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