Abstracts

A Generalized Method for Analyzing Shielded Thin Microstrip Discontinuities

L.P. Dunleavy and P.B. Katehi. "A Generalized Method for Analyzing Shielded Thin Microstrip Discontinuities." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1758-1766.

A new integral equation method is described for the accurate full-wave analysis of shielded thin microstrip discontinuities. The integral equation is derived by applying the reciprocity theorem, then solved by the method of moments. In this derivation, a coaxial aperture is modeled with an equivalent magnetic current and is used as the excitation mechanism for generating the microstrip currents. Computational aspects of the method have been explored extensively. A summary of some of the more interesting conclusions is included.

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