Abstracts

Accurate and efficient numerical method for the analysis of multimode waveguide discontinuities

P. Pannier, L. Kadri, C. Seguinot, P. Kennis and F. Huret. "Accurate and efficient numerical method for the analysis of multimode waveguide discontinuities." 2000 Transactions on Microwave Theory and Techniques 48.2 (Feb. 2000 [T-MTT] (Mini-Special Issue on Research Reported at the 1999 Radio Frequency Integrated Circuits (RFIC) Symposium)): 295-304.

This paper presents an original approach to analyze multimode waveguide discontinuities. The generalized scattering parameters are determined by a matrix pencil moment method associated with efficient numerically multimode matched loads placed at each physical port of the discontinuities. The analysis of both microstrip-coupled lines and coplanar lines asymmetric discontinuities is presented and successfully compared to experiments and available published results.

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