Abstracts

A modified matrix pencil moment method for multimode waveguide discontinuities analysis

L. Kadril, P. Pannier, C. Seguinot, P. Kennis and F. Huret. "A modified matrix pencil moment method for multimode waveguide discontinuities analysis." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 885-888.

This paper presents an original approach to analyze multimode waveguide discontinuities. The generalized scattering parameters are determined by a Matrix Pencil Moment Method (MPMM) 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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