

# Abstracts

## An Improved Transmission Matrix Formulation of Cascaded Discontinuities and its Application to E-Plane Circuits (1986 [MWSYM])

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*R.R. Mansour and R.H. MacPhie. "An Improved Transmission Matrix Formulation of Cascaded Discontinuities and its Application to E-Plane Circuits (1986 [MWSYM])." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 785-788.*

We study the effect of the relative convergence problem on the transmission matrix formulation of cascaded discontinuities. A numerically efficient modified formulation satisfying the edge condition is presented. Application is in the analysis of waveguiding structures in which a number of conductors are placed on various interfaces. Numerical results are presented for double ridged waveguides and fin lines.

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