

Abstracts

Analysis of Rectangular Waveguide Discontinuities by the Method of Lines

W. Pascher and R. Pregla. "Analysis of Rectangular Waveguide Discontinuities by the Method of Lines." 1995 Transactions on Microwave Theory and Techniques 43.2 (Feb. 1995 [T-MTT]): 416-420.

An efficient analysis of discontinuities in the rectangular waveguide is presented using the method of lines with one-dimensional discretization. As the line numbers in the incoming and outgoing waveguides are automatically correctly chosen in the method of lines, relative convergence is avoided. Scattering parameters for the E-plane step discontinuity are determined and an equivalent circuit for the diaphragm, the displacement, and a step with diaphragm is presented.

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