

Abstracts

Transverse Discontinuities in Nonreciprocal Waveguides

T.A. Enegren and M.M.Z. Kharadly. "Transverse Discontinuities in Nonreciprocal Waveguides." 1980 Transactions on Microwave Theory and Techniques 28.6 (Jun. 1980 [T-MTT]): 609-615.

The mode-matching technique is used to analyze transverse discontinuities in nonreciprocal waveguides. The difficult orthogonality relations are circumvented using a Galerkin approach. The elements of an exact three-element equivalent circuit for an infinitely thin metallic diaphragm are evaluated. Each element has two values, one for each direction of propagation. The numerical results show the same trends as those obtained experimentally in a similar configuration.

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