

Abstracts

Coupling Characteristics of Planar Dielectric Waveguides of Rectangular Cross Section

T. Trinh and R. Mittra. "Coupling Characteristics of Planar Dielectric Waveguides of Rectangular Cross Section." 1981 Transactions on Microwave Theory and Techniques 29.9 (Sep. 1981 [T-MTT] (Special Issue on Open Guided Wave Structures)): 875-880.

An approximate analytical method based on experimental results for predicting the coupling characteristics of various coupling structures is described. Expressions for the propagation constants were derived using the generalized effective dielectric constant method. For nonsymmetric coupling structures, the theoretical coupling coefficients were modified by a correction factor. Comparisons between experimental and theoretical results are presented.

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