

Abstracts

Analysis of coupled inset dielectric guide structure

Y.H. Cho and H.J. Eom. "Analysis of coupled inset dielectric guide structure." 2001 Transactions on Microwave Theory and Techniques 49.7 (Jul. 2001 [T-MTT]): 1329-1332.

The propagation and coupling characteristics of the inset dielectric guide coupler are theoretically considered in this paper. Rigorous solutions for the dispersion relation and the coupling coefficient are presented in a rapidly convergent series. Numerical computations illustrate the behaviors of dispersion, coupling, and field distribution in terms of frequency and coupler geometry.

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