

Abstracts

Analysis of This Inclined Rectangular Aperture with Arbitrary Location in Rectangular Waveguide (Short Paper)

R. Yang and A.S. Omar. "Analysis of This Inclined Rectangular Aperture with Arbitrary Location in Rectangular Waveguide (Short Paper)." 1993 Transactions on Microwave Theory and Techniques 41.7 (Aug. 1993 [T-MTT]): 1461-1463.

An analysis is developed for calculating the coupling parameters of a thin inclined rectangular coupling aperture arbitrarily located in the transverse plane of a rectangular waveguide. The analysis uses the aperture basis 2-function approach of the moment method. The calculated results for different aperture geometries and for a X-band band-pass filter realized with three resonant apertures have been confirmed to a good accuracy with experiments.

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