

# Abstracts

## Slotted Waveguide Directional Coupler Characteristics

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*H.-Y. Yee. "Slotted Waveguide Directional Coupler Characteristics." 1990 Transactions on Microwave Theory and Techniques 38.10 (Oct. 1990 [T-MTT]): 1497-1502.*

This paper demonstrates a moment method solution for slotted waveguide directional couplers which is sufficiently accurate for predicting the couplers' characteristics. The formulation uses Galerkin's method with the entire domain basis of sinusoidal functions. Under the assumption of a narrow slot, the field distribution considered is uniform across the slot aperture. A detailed discussion of the characteristics of narrow-wall and broad-wall slotted waveguide directional couplers is presented.

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