

Abstracts

Aperture Coupling Between Dielectric Image Lines

I.J. Bahl and P. Bhartia. "Aperture Coupling Between Dielectric Image Lines." 1981 Transactions on Microwave Theory and Techniques 29.9 (Sep. 1981 [T-MTT] (Special Issue on Open Guided Wave Structures)): 891-896.

Aperture coupling between dielectric image lines is used develop a design technique for directional couplers at millimeter-wave frequencies. Expressions for coupling coefficients and directivity, employing coupling between image lines through apertures in the common ground plane are developed. The design procedure is illustrated by application 10-, 20-, and 30-dB directional couplers in rectangular image lines with circular aperture coupling.

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