

Abstracts

Hollow Image Guide and Overlayed Image Guide Coupler

J.-F. Miao and T. Itoh. "Hollow Image Guide and Overlayed Image Guide Coupler." 1982 Transactions on Microwave Theory and Techniques 30.11 (Nov. 1982 [T-MTT]): 1826-1831.

A dielectric waveguide structure, hollow image guide, is described. This structure has several interesting characteristics useful for millimeter-wave applications. Dispersion characteristics and field distributions are theoretically and experimentally studied. The structure can also be considered as two parallel image guides coupled strongly by a dielectric overlay. Coupling characteristics between two image guide arms are studied numerically and experimentally.

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