

Analysis of Coupling in Image Guide Technology (Short Papers)

D.L. Paul, M. Habibi, J. Castrillo, P. Gelin and S. Toutain. "Analysis of Coupling in Image Guide Technology (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.5 (May 1992 [T-MTT]): 1025-1028.

Coupling for symmetrical and asymmetrical structures in image guide technology is described. Starting from Trinh and Mittra's analysis, we propose some improvements for treating strong coupling between an image guide and a ring resonator of any radius of curvature, by taking into account the field displacement effect, and for a nonsymmetric coupler, the difference between the propagation constants of the straight and curved image guides. A comparison between this analysis and Trinh and Mittra's experiments has been made.

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