

Abstracts

A Generalized Theory for Asymmetrical Coupled Lines (Short Papers)

D. Kother, I. Wolff and A. Beyer. "A Generalized Theory for Asymmetrical Coupled Lines (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 622-624.

A method will be presented that calculates the properties of geometrically or electromagnetically asymmetrical coupled lines. Analogous to the normally used theory of even and odd modes, the electromagnetic fields on the coupler will be described in terms of two modes as the basic variables to calculate the coupling behavior. As a criterion for determining the amplitudes of the two modes, the power transported on the two guides will be used. An image guide coupler with a ferrite slab will theoretically demonstrate the feasibility of this method.

[Return to main document.](#)