# Abstracts

## Analysis and Design of Asymmetric and Multiple Coupled Finline Couplers and Filters

*A. Biswas and V.K. Tripathi. "Analysis and Design of Asymmetric and Multiple Coupled Finline Couplers and Filters." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 403-406.*

The procedure to compute the scattering parameters of a general asymmetric and multiple coupled finline multiport is formulated in terms of the normal mode parameters of the structure. The normal mode parameters of the structures are computed by applying the spectral domain technique to general shielded multilayered structure. In addition, closed form expressions for the immittance parameters and characteristically terminated scattering parameters of the asymmetric coupled line and three line structure are presented. The multiport parameters of the finline structure are used to design filters, couplers and power dividers.

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