

Abstracts

Multiple-Port Power Divider/Combiner Circuits Using Circular Microstrip Disk Configurations (Dec. 1987 [T-MTT])

M.D. Abouzahra and K.C. Gupta. "Multiple-Port Power Divider/Combiner Circuits Using Circular Microstrip Disk Configurations (Dec. 1987 [T-MTT])." 1987 Transactions on Microwave Theory and Techniques 35.12 (Dec. 1987 [T-MTT] (1987 Symposium Issue)): 1296-1302.

A generalized method for evaluating the scattering parameters of a multiport center-fed circular microstrip disk power divider/combiner circuits is presented. The method is based on the planar circuit approach in which the two-dimensional Green's function of a circular segment is used. Various symmetrical power divider/combiner circuits have been designed and tested. The effect of introducing additional shorted ports between the circumferential output ports on the reduction of spurious radiation losses is discussed. Experimental results verifying the design methodology are given.

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