

Abstracts

Multiple-Port Power Dividers/Combiners Circuits Using Circular Microstrip Disc Configuration (1987 Vol. I [MWSYM])

M.D. Abouzahra and K.C. Gupta. "Multiple-Port Power Dividers/Combiners Circuits Using Circular Microstrip Disc Configuration (1987 Vol. I [MWSYM])." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 211-214.

A generalized method for evaluating the S-parameters of a multiport center-fed circular microstrip disc power divider/combiner circuit 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 are designed and tested. The effect of introducing shorted posts between the circumferential ports on the reduction of radiation losses is discussed. Experimental results verifying the design methodology and the optimization procedure are given.

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