

Abstracts

Analysis of an N-Port Consisting of a Radial Cavity and E-Plane Coupled Rectangular Waveguides (Short Papers)

M.E. Bialkowski. "Analysis of an N-Port Consisting of a Radial Cavity and E-Plane Coupled Rectangular Waveguides (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.9 (Sep. 1992 [T-MTT]): 1840-1843.

An analysis of an n-port including a radial or coaxial cavity and E-plane coupled rectangular waveguides is presented. A non-standard field matching technique which exploits both circular and rectangular boundaries, is used to determine the scattering matrix parameters of the n-port. Validity of the analysis is verified through comparison with an alternative analysis and experiment.

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