

Abstracts

New Equivalent Networks with Simple Closed-Form Expressions for Open and Slit-Coupled E-Plane Tee Junctions

P. Lamariello and A.A. Oliner. "New Equivalent Networks with Simple Closed-Form Expressions for Open and Slit-Coupled E-Plane Tee Junctions." 1993 Transactions on Microwave Theory and Techniques 41.5 (May 1993 [T-MTT]): 839-847.

Analytical expressions are presented for the elements of new equivalent networks for open and slit-coupled E-plane tee junctions. The expressions are in simple closed form, and their accuracy is verified by comparisons with measurements. Physically based "stored power" considerations are also developed in context to indicate how appropriate changes in the geometry can be taken into account.

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