

Abstracts

Branchlike-Couplers with Improved Design Flexibility and Broad Bandwidth

B. Mayer and R. Knochel. "Branchlike-Couplers with Improved Design Flexibility and Broad Bandwidth." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 391-394.

Analytical formulas are derived, which allow to fully exploit the design flexibility inherent in two-arm branchlike-couplers with open stubs at the symmetry-planes in order to avoid low-impedance lines. A broad banding procedure is given also, which for example improves the operating-bandwidth of a two-arm coupler up to 40% while maintaining very flat coupling characteristic.

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