Abstracts

Surface-to-Surface Transition via Electromagnetic Coupling of Microstrip and Coplanar Waveguide

J.J. Burke and R.W. Jackson. "Surface-to-Surface Transition via Electromagnetic Coupling of Microstrip and Coplanar Waveguide." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 519-525.

A structure is described which forms a transition from coplanar waveguide on one substrate to microstrip on another. Energy is transferred via electromagnetic coupling rather than with wire bonds. A full-wave formulation along with the theory of asymmetrically coupled lines is used to analyze the transition. Two model transitions were built and tested. Theory and measurement show good agreement when the coupler length to width ratio is larger than 0.6.

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