Abstracts

Equivalent Circuits of Microstrip Impedance Discontinuities and Launchers

J.S. Wight, O.P. Jain, W.J. Chudobiak and V. Makios. "Equivalent Circuits of Microstrip Impedance Discontinuities and Launchers." 1974 Transactions on Microwave Theory and Techniques 22.1 (Jan. 1974 [T-MTT]): 48-52.

Experimental results obtained indicate that an excess phase shift is the most pronounced high-frequency parasitic effect resulting from a microstrip quarter-wave transformer impedance discontinuity. An empirically derived design-oriented model describing the dominant parasitic reactance associated with a microstrip impedance discontinuity at X-band frequencies is described. A description is also given of the dominant parasitic reactance associated with a number of commercially available coaxial-to-microstrip launchers.

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