Abstracts

Experimental Validation of Microstrip Bend Discontinuity Models from 18 to 60 GHz

A.J. Slobodnik, Jr. and R.T. Webster. "Experimental Validation of Microstrip Bend Discontinuity Models from 18 to 60 GHz." 1994 Transactions on Microwave Theory and Techniques 42.10 (Oct. 1994 [T-MTT]): 1872-1878.

A cavity resonance technique is described and used to experimentally verify microstrip bend discontinuity models over the frequency range 18 to 60 GHz. A novel, dual-cavity method leads to elimination of confounding variables and permits isolation and investigation of the bend model alone. This contrasts to a more standard approach in which the presence of models for several other structures such as microstrip and a coupler complicates study of the specific model under consideration. Optimally mitered, 50% mitered and unmitered bends of three different widths on alumina are included.

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