

Abstracts

An Analysis of an N-Port Microstrip Planar Disk Device with an Arbitrarily Located Short Circuit Post of Arbitrary Radius

S.R. Judah and M.J. Page. "An Analysis of an N-Port Microstrip Planar Disk Device with an Arbitrarily Located Short Circuit Post of Arbitrary Radius." 1990 Transactions on Microwave Theory and Techniques 38.12 (Dec. 1990 [T-MTT] (1990 Symposium Issue)): 1823-1830.

An analysis technique is presented which allows the performance of a multiport microstrip planar disk device with an arbitrarily located internal short circuit (S/C) post of arbitrary radius to be predicted. The analysis approach does not rely on the determination of eigenvalues and yields analytical expressions which are ideal for CAD implementation. The experimental results are in good agreement with the theoretical predictions.

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