

Abstracts

Electric Probe Measurements on Microstrip

J.S. Dahele and A.L. Cullen. "Electric Probe Measurements on Microstrip." 1980 Transactions on Microwave Theory and Techniques 28.7 (Jul. 1980 [T-MTT]): 752-755.

The aim of the experimental investigation reported here is to measure the electric field of microstrip using a field probe. To establish the accuracy of these measurements, the probe is first calibrated against a known field which is obtained by analyzing a wire suspended axially in a rectangular metal tube. Measurements on a simple wire over ground plane circuit indicate that unshielded structures are basically unsuitable for accurate probe calibration. Finally, the theoretical results predicted by a numerical analysis program for microstrip, published recently, are verified by comparing these with the actual field distribution determined experimentally.

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