

Abstracts

A New Technique for Calibrating Dual Six-Port Networks with Application to S Parameter Measurements

L. Susman. "A New Technique for Calibrating Dual Six-Port Networks with Application to S Parameter Measurements." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 179-181.

This paper describes a new technique for the simultaneous calibration of two six-port networks as reflectometers. Once calibrated, the complete S parameters of an unknown two-port network can be obtained from power measurements alone. The technique requires only a uniform transmission line, of unknown length and loss, and a short circuit as calibrating standards. Its application to an automated microwave measurement system is described and potential error sources are quantitatively discussed.

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