

Abstracts

A novel vector network analyzer (1998 Vol. II [MWSYM])

K. Hoffmann and Z. Skvor. "A novel vector network analyzer (1998 Vol. II [MWSYM])." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 953-956.

A calibration procedure for perturbation two-port vector network analyzer is presented. It consists of a variable perturbation two-port placed between a device under test and a scalar network analyzer. A measured vector reflection coefficient is determined on the basis of amplitude only readings. A full correction of systematic errors is possible. The new principle was experimentally confirmed in the frequency band up to 14 GHz.

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