

Abstracts

Establishing the Complex Measurement Ability of a Homodyne Network Analyzer via Self-Calibration

H.-J. Eul. "Establishing the Complex Measurement Ability of a Homodyne Network Analyzer via Self-Calibration." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1187-1190.

A homodyne phase shifter controlled double-reflectometer is presented. The ability for complex measurement, i.e. the knowledge of the phase shifter characteristics, is established with fully unknown standards by only exploiting reciprocity. If a system error correction is performed the data needed for error correction contain enough information to determine the phase shifter behavior. Therefore no additional standards are needed.

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