Abstracts

A Generalized Theory and New Calibration Procedures for Network Analyzer Self-Calibration

H.-J. Eul and B. Schiek. "A Generalized Theory and New Calibration Procedures for Network Analyzer Self-Calibration." 1991 Transactions on Microwave Theory and Techniques 39.4 (Apr. 1991 [T-MTT]): 724-731.

A general theory for performing network analyzer calibration is presented. New calibration procedures are derived which allow for partly unknown standards. The most general procedure derived is called TAN and allows for five unknown parameters in the three calibration standards. The values of the unknown parameters are determined during the calibration procedure via eigenvalue conditions. The good performance of all the procedures is shown by measured results.

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