

# Abstracts

## Improved Calibration and Measurement of the Scattering Parameters of Microwave Integrated Circuits

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*R.R. Pantoja, M.J. Howes, J.R. Richardson and R.D. Pollard. "Improved Calibration and Measurement of the Scattering Parameters of Microwave Integrated Circuits." 1989 Transactions on Microwave Theory and Techniques 37.11 (Nov. 1989 [T-MTT]): 1675-1680.*

A novel procedure for the calibration of microwave integrated circuit test fixtures, based on a generalization of the "through-reflect-line" algorithm, is presented. Its advantages compared with previous methods, namely bandwidth of validity and standards availability, are discussed. The approach is verified through the characterization of a particular microstrip verification standard using both the "generalized TRL" and precision 7 mm calibration techniques. Comparison of the results obtained from these schemes indicates that both the effective directivity and the source/load match are better than 30 dB.

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