Abstracts

Accuracy Improvements in Microwave Noise Parameter Measurements

A.C. Davidson, B.W. Leake and E. Strid. "Accuracy Improvements in Microwave Noise Parameter Measurements." 1989 Transactions on Microwave Theory and Techniques 37.12 (Dec. 1989 [T-MTT] (1989 Symposium Issue)): 1973-1978.

Factors contributing to microwave noise parameter measurement accuracy have been examined theoretically and experimentally. It is shown that for good accuracy the test source impedances need not be grouped around the impedance that produces minimum noise figure. System calibration and DUT S-parameter accuracy are important to the derived noise parameter accuracy, and the use of a vector network analyzer is advantageous. A new algorithm has been implemented which avoids errors caused by different noise source "on" and "off" impedances.

❑ Return to main document.