Abstracts

A simple error correction method for two-port transmission parameter measurement

C. Wan, B. Nauwelaers and W. De Raedt. "A simple error correction method for two-port transmission parameter measurement." 1998 Microwave and Guided Wave Letters 8.2 (Feb. 1998 [MGWL]): 58-59.

This letter presents a simple error correction method for two-port transmission parameter measurement. The method requires measuring only two nonreflecting transmission lines instead of a complete set of calibration standards (at least three) for error correction, it does not need an explicit solution of error coefficients. These two features make it simpler than any other methods. Error-corrected measurement results of a CPW discontinuity using the new method and the TRL method are in good agreement. The new method is useful in characterizing well-matched two-port devices or those whose reflection parameters are of little interest.

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