

Abstracts

A Simple Method for Precise Phase Shift Measurement

C.F. Augustine. "A Simple Method for Precise Phase Shift Measurement." 1965 G-MTT Symposium Program and Digest 65.1 (1965 [MWSYM]): 227-231.

This paper discusses a simple method of measuring the phase shift of circuit components with very high accuracy. The method is substantially independent of loss in the circuit component. This is accomplished by using a systematic technique that eliminates errors due to the usual measuring system imperfections. The method uses a hybrid junction, a dual channel null detector circuit, and a high quality phase shift standard whose design is presented in some detail. Phase shift measurement accuracies of 1 degree have been reliably obtained on components with loss up to 40 db.

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