Abstracts

Error in Impedance Measurement When the Signal is Introduced Across the Slotted-Line Probe (Short Papers)

J. Barbero. "Error in Impedance Measurement When the Signal is Introduced Across the Slotted-Line Probe (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.10 (Oct. 1974 [T-MTT]): 887-889.

For some special applications impedance measurements have to be made where the test level reaching the unknown must be kept very low. In such cases, using slotted-line techniques, the detector and generator are reversed in the test setup, and the test signal is introduced across the probe of the slotted line which is terminated on one side with the load, and on the other with the detector. This short paper briefly describes this familiar method and then discusses the error calculation in the measurement of VSWR and phase when the detector is not perfectly matched.

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