

Abstracts

Discussion of Effect of Realizability Conditions upon Estimated Limits of Mismatch Error in the Calibration of Fixed Attenuators (Correspondence)

R.W. Beatty. "Discussion of Effect of Realizability Conditions upon Estimated Limits of Mismatch Error in the Calibration of Fixed Attenuators (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.11 (Nov. 1968 [T-MTT]): 976-976.

The effect of the realizability conditions for passive 2-ports upon the estimation of mismatch error limits for attenuation measurements is discussed. Only the case of the insertion of fixed, symmetrical, reciprocal 2-ports is considered. It is shown that the effect of realizability conditions need be considered only for certain ranges of attenuation and VSWR. Most attenuators encountered in practice do not fall within these ranges so that the conventional method of estimating mismatch error limits is usually satisfactory.

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