

Abstracts

A Simple Technique for Real-Time Measurement of Complex Reflection Coefficient (Correspondence)

G.H. Glover. "A Simple Technique for Real-Time Measurement of Complex Reflection Coefficient (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.7 (Jul. 1970 [T-MTT]): 410-412.

A simple method for making real-time measurements of complex reflection coefficient $p_{\text{sub}} x$ is described. The technique uses a hybrid tee and two crystal detectors to provide analog outputs from which the reflection coefficient is obtained. Sample measurements of $p_{\text{sub}} x$ made at 34.3 GHz are presented which indicate a precision of greater than 0.02 units and 0.05 radians in magnitude and argument, respectively, for $0.1 \leq |p_{\text{sub}} x| \leq 1.0$.

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