

Abstracts

A New Real-Time Six-Port A N A Method

L. Kaliouby and R.G. Bosisio. "A New Real-Time Six-Port A N A Method." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 569-571.

A method for real-time six-port automatic network analyzer (ANA) measurements based on the use of a pre-calculated six-port chart is developed. It is shown that a swept frequency generator can be used to read the module and/or phase of the reflection coefficient (Γ) on a computer screen at sweep rates of up to 75 Hz. The test band is determined by the six-port design, typically 9:1, the accuracy of measurement is dependent on the swept frequency interval and on the six-port circuit design.

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