

# Abstracts

## A V-Band Network Analyzer/Reflection Test Unit

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*L.T. Yuan, G.M. Yamaguchi and J.E. Raue. "A V-Band Network Analyzer/Reflection Test Unit." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 221-223.*

This paper describes the design, fabrication and performance of a novel V-band network analyzer/reflection test unit which is capable of operation over a wide frequency range in the 50 to 75 GHz band. The broadband performance of the reflection test unit design results in a continuous measurement over a 10 GHz band with a single sweep. The reflection test unit, utilizing a matched pair of wideband crossbar mixers, features high tracking ability, low source reflection coefficient (i.e., <0.08) and high system directivity (i.e., >31 dB).

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