

# Abstracts

## Wideband Measurement of Nonstandard Transmission Paths

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*R. Garver, J. Tatum and S. Hayes. "Wideband Measurement of Nonstandard Transmission Paths." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 285-288.*

This paper presents a means of interpreting the measurements of attenuation of non-50-ohm transmission paths when the measurements are made on a 50-ohm system. Nonstandard transmission paths are modeled as lossy lengths of transmission line. Equations are derived to calculate the transmission parameters of a nonstandard transmission path derived from its scalar S<sub>sub 21</sub> parameters when measured on a 50-ohm scalar analyzer. The parameters can then be used for calculating the response of the path interfacing other impedances.

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