

Abstracts

Wideband Measurement of Nonstandard Transmission Paths

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_{21} 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.

 [Return to main document.](#)