

Abstracts

Scattering Analysis of a Millimeter-Wave Scalar Network Analyzer

J.B. Knorr. "Scattering Analysis of a Millimeter-Wave Scalar Network Analyzer." 1984 Transactions on Microwave Theory and Techniques 32.2 (Feb. 1984 [T-MTT]): 183-190.

This paper presents the results of a scattering analysis of a millimeter-wave scalar network analyzer system. The results clearly indicate the way in which the individual system components contribute to calibration and measurement error. Procedures which minimize the calibration error for waveguide measurement systems are described, and the residual measurement uncertainty is quantified in a way which establishes the tightest possible bound on the measurement error.

 [Return to main document.](#)