Abstracts

A method to compare vector nonlinear network analyzers

K.A. Remley, D.C. DeGroot, J.A. Jargon and K.C. Gupta. "A method to compare vector nonlinear network analyzers." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 1667-1670 vol.3.

We address the difficult problem of determining measurement consistency between two vector nonlinear network analyzers, a new class of stimulus response instruments that acquire multiharmonic waveform data instead of normalized network parameters. We develop a set of nonlinear verification devices and a method to compare the systems, and then demonstrate that measurements from three different nonlinear network analyzers are consistent to within 1.3% of the amplitude of the applied stimulus signal.

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