

Abstracts

Calibrated Measurements of Nonlinearities in Narrowband Amplifiers Applied to Intermodulation and Cross Modulation Compensation

T. Van den Broeck. "Calibrated Measurements of Nonlinearities in Narrowband Amplifiers Applied to Intermodulation and Cross Modulation Compensation." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1155-1158.

A vectorial nonlinear-network analyzer (VNNA) is absolutely calibrated in amplitude and phase for narrowband measurements of nonlinearities. Calibration is performed with a reference generator, characterized with a calibrated sampling oscilloscope. The reference signal, consisting of an unconverted baseband signal, is optimized for statistically efficient measurements. Using the calibrated VNNA, narrowband amplifiers can be measured, enabling compensation of intermodulation and cross-modulation.

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