What is the LSNA Technology Program?

The Agilent LSNA Technology Program provides a measurement & consulting service related to large-signal device, circuit and system characterisation using Agilent's unique Large-Signal Network Analyzer (LSNA) technology. This technology accurately and completely characterizes the large-signal behavior of your component under realistic RF or microwave excitation. As a result, you get unprecedented insight in the behavior of components, leading to better models and a shorter time-to-market.

Application Examples

**Model verification in ADS and ICCAP**

Modeled and measured component behavior can easily be compared for all kinds of models (BSIM, MM11, Chalmers, Gummel-Poon, VBIC, MEXTRAM, HICUM, ...).

**Modulation characteristics**

The LSNA measures complex envelopes of incident and reflected fundamental and harmonics. Distortion is also characterized (ACPR, IM3,...).

**Waveform characterization & engineering**

The LSNA measures time domain waveforms of current and voltage at both signal ports of a transistor.

**Extraction of scattering functions**

Scattering functions are an extension of the S-parameter concept towards large-signal (nonlinear) behavior. “Hot S22” is a simple example of the more general “Scattering functions theory”.

**High speed digital circuits**

The LSNA measures waveforms with the elimination of probe and jitter parasitics. The resulting eye patterns of high speed digital circuits (upto 40GBit) are more accurate than those measured by oscilloscopes.

Want to use our services? Need more information? Contact:
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