

## Non-Invasive Waveform Probing for Nonlinear Network Analysis

---

*C.J. Wei, Y.A. Tkachenko and J.C.M. Hwang. "Non-Invasive Waveform Probing for Nonlinear Network Analysis." 1993 MTT-S International Microwave Symposium Digest 93.3 (1993 Vol. III [MWSYM]): 1347-1350.*

A novel and non-invasive technique has been developed for the measurement of fundamental and harmonic S-parameters as functions of input frequency and power. The advantage of this technique was demonstrated on a GaAs field-effect transistor by plotting its drain current versus voltage trajectory at 5 GHz which clearly showed the origin of its nonlinearity.

 [Return to main document.](#)