

# Abstracts

## The S-Probe a New, Cost-Effective, 4-Gamma Method for Evaluating Multi-Stage Amplifier Stability

---

*K. Wang, M. Jones and S. Nelson. "The S-Probe a New, Cost-Effective, 4-Gamma Method for Evaluating Multi-Stage Amplifier Stability." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 829-832.*

This paper describes a generalized, automated, noninvasive, "4-Gamma" technique for stability analysis of multi-stage active circuits. It operates directly in the circuit-simulator environment and eliminates all off-line calculations. This technique can be extended to n-port networks and works equally well with circuit models or s-parameter descriptions. Most importantly, it can detect special cases of instability involving "active" terminations. These are often missed using conventional stability analysis approaches.

[Return to main document.](#)