Abstracts

Internal-Node Waveform Analysis of MMIC Power Amplifiers

C.-J. Wei, Y.A. Tkachenko, J.C.M. Hwang, K.R. Smith and A.H. Peake. "Internal-Node Waveform Analysis of MMIC Power Amplifiers." 1995 Transactions on Microwave Theory and Techniques 43.12 (Dec. 1995, Part II [T-MTT] (1995 Symposium Issue)): 3036-3041.

A novel internal-node waveform probing technique has been demonstrated on a C-band monolithic microwave integrated circuit (MMIC) power amplifier. The error of the measurement and its perturbance to circuit operation was estimated and verified to be within ±10%. Valuable insight was obtained from the variation of waveforms as a function of frequency, drive and location. The potential impact of this technique includes MMIC design verification, in-situ device model extraction, process diagnosis, and reliability assessment.

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