

Abstracts

HEMT Models for Large Signal Circuit Simulation

D. Halchin, M. Miller, M. Golio and S. Tehrani. "HEMT Models for Large Signal Circuit Simulation." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 985-988.

Two new large signal HEMT models have been developed. The models have been implemented in both parameter extraction and circuit simulation software, and validated using an automated load-pull system. Both models show significant improvement in performance prediction capability compared to conventional models available in non-linear simulation software. The validation procedure makes use of an InP based HEMT operating into both matched and un-matched load states at several power levels along with a uniquely defined non-linear error metric.

[Return to main document.](#)