

HEMT Models for Large Signal Circuit Simulation

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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.

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