

Measurement based nonlinear electrothermal modeling of GaAs FET with dynamical trapping effects

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This paper presents MESFET measurement methods based on pulsed measurements that separate trapping and thermal effects. Derived from these measurements, a model of the trapping effect is determined, as well as a thermal model. The proposed nonlinear model is validated from DC to RF frequencies, it handles dynamical dispersive effects and does not depend on the hot bias point.

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