

# Abstracts

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

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*Z. Ouarch, J.M. Collantes, J.P. Teyssier and R. Quere. "Measurement based nonlinear electrothermal modeling of GaAs FET with dynamical trapping effects." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 599-602.*

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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