

Abstracts

Characterization and modelling of microwave and millimeter-wave large-signal device-circuit interaction based on electro-thermal physical models

C.M. Snowden. "Characterization and modelling of microwave and millimeter-wave large-signal device-circuit interaction based on electro-thermal physical models." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. 1 [MWSYM]): 155-158.

This paper describes a comprehensive approach to modelling the large-signal behaviour of microwave and millimeter-wave transistor circuits based on electro-thermal physical device models with harmonic-balance or time-domain simulators. MESFET oscillator and pHEMT MMIC power amplifier designs have been used to validate the method, achieving excellent agreement between simulated and measured data.

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