

## Validation of a new nonlinear HEMT model by intermodulation characterization

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Guoli Qu and A.E. Parker. "Validation of a new nonlinear HEMT model by intermodulation characterization." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 745-748.

A new HEMT model is presented. The second and third-order intermodulation products of HEMT amplifiers are investigated at low frequency (50 MHz) and high frequency (1 GHz) respectively. Simulations performed with SPICE agree well with measurements. The contribution of nonlinear capacitance to intermodulation distortion is investigated.

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