

## Validation of power amplifier nonlinear block models

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*M.S. Muha, C.J. Clark, A.A. Moulthrop and C.P. Silva. "Validation of power amplifier nonlinear block models." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 759-762 vol.2.*

This paper presents a method of assessing the fidelity of nonlinear amplifier models for communications applications. The simulation predictions for BPSK and 16-QAM input signals are compared to measurements for a 20 GHz solid-state amplifier. It is shown that including a filter before a memoryless nonlinearity provides significantly improved model fidelity compared to the memoryless nonlinearity alone.

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