

Abstracts

Measurement based modeling of amplifiers in deep saturation

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A measurement based black-box modeling method for amplifiers in deep saturation is proposed. To model the amplitude and phase behaviour of an amplifier from the linear region to strong saturation, a rational Volterra model is used. The new model is compared with a standard polynomial Volterra model. The calibrated measurements are performed using the nonlinear network measurement system (NNMS).

[Return to main document.](#)