Abstracts

Investigation of behavioral model accuracy using a state-space and convolution-based transient simulator

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Behavioral modeling of high-frequency systems offers the prospect of more efficient simulation at the expense of some loss of accuracy. In this work, a new state-space/convolution type transient simulator is introduced which provides a large-signal amplifier analysis capability featuring extremely high accuracy and robustness. This simulator is used to "benchmark" the accuracy performance of different forms of behavioral model for a realistic PHEMT single-ended amplifier, with distributed matching circuitry.

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