Abstracts

Waveform-Balance Method for Nonlinear MESFET Amplifier Simulation

A new algorithm for the analysis of a nonlinear MESFET amplifier is presented. The algorithm is a hybrid method which uses both time and frequency domain analysis. However, unlike the Harmonic Balance method, the solution is optimized in the time domain where the EXACT error gradient matrix is calculated. The new method is shown to have excellent convergence speed and accuracy.

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