

Direct Nonlinear FET Parameter Extraction Using Large-Signal Waveform Measurements

A. Werthof, F. van Raay and G. Kompa. "Direct Nonlinear FET Parameter Extraction Using Large-Signal Waveform Measurements." 1993 Microwave and Guided Wave Letters 3.5 (May 1993 [MGWL]): 130-132.

A new method is presented which permits a direct nonlinear FET parameter extraction of the drain current generator and the gate source capacitor from large-signal waveform measurements. For demonstration, the high frequency characteristics of the nonlinear drain current generator for a GaAs-MESFET and a MODFET are extracted. Significant differences between the dc and RF characteristics are observed and interpreted.

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