

Abstracts

New model extraction for predicting distortion in HEMT and MESFET circuits

Guoli Qu and A.E. Parker. "New model extraction for predicting distortion in HEMT and MESFET circuits." 1999 Microwave and Guided Wave Letters 9.9 (Sep. 1999 [MGWL]): 363-365.

A new method is presented for extracting Taylor series coefficients directly from IM measurements for modeling IM distortion in HEMT and MESFET circuits. It is based on an improved model that uses better simplifying assumptions. The method gives a substantially more accurate characterization, especially in the saturation region, required for amplifier designs.

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