

Abstracts

Modeling MESFET's for Intermodulation Analysis in RF Switches

R.S. Virk and S.A. Maas. "Modeling MESFET's for Intermodulation Analysis in RF Switches." 1994 *Microwave and Guided Wave Letters* 4.11 (Nov. 1994 [MGWL]): 376-378.

This paper describes a new model for a resistive GaAs MESFET and its application to calculations of intermodulation distortion in switches. The model uses an expression for the I/V characteristics of the device whose parameters are fit to the static I/V and its derivatives. This new model provides a reliable means of describing the nonlinear distortion generated by a MESFET switch.

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