

Abstracts

Modeling MESFETs for Intermodulation Analysis of Mixers and Amplifiers (1990 Vol. III [MWSYM])

S.A. Maas and D. Neilson. "Modeling MESFETs for Intermodulation Analysis of Mixers and Amplifiers (1990 Vol. III [MWSYM])." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1291-1294.

This paper examines the problem of modeling GaAs MESFETs for calculations of intermodulation and spurious responses. We show that an adequate model must express not only the absolute I/V characteristics of the device, but also the derivatives of those characteristics. Finally, we propose a large-signal FET model that models those derivatives more realistically than do existing models.

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