Abstracts

An Improved MESFET Model for Prediction of Intermodulation Load-Pull Characterization

J.C. Pedro and J. Perez. "An Improved MESFET Model for Prediction of Intermodulation Load-Pull Characterization." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 825-828.

An accurate characterization of the nonlinear distortion caused by the Ids(Vgs, Vds) current in a MESFET, does not allow the common approach of splitting this nonlinear equivalent circuit element in two voltage dependent nonlinear current sources, Gm(Vgs) and Gds(Vds). By an improved laboratory characterization procedure, it was possible to show that the cross terms of the Ids(Vgs, Vds) Taylor Series expansion can give an important contribution to the prediction of MESFET's intermodulation load-pull behavior.

❑ Return to main document.