

Abstracts

Accurate Nonlinear Modeling and Verification of MMIC Amplifier

V.D. Hwang, Y.-C. Shih and H.M. Le. "Accurate Nonlinear Modeling and Verification of MMIC Amplifier." 1989 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 89.1 (1989 [MCS]): 37-41.

An accurate MESFET nonlinear model and a reliable model verification approach which uses the on-wafer RF probing method are presented. The nonlinear model is based on small signal S-parameter characterization of the MESFET at a wide range of bias voltages. Simulation results of an MMIC amplifier at various frequencies, bias voltages, and power levels agree well with the measurement data.

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