Abstracts

Generalized Power Series Analysis of Intermodulation Distortion in a MESFET Amplifier - Simulation and Experiment (1987 Vol. I [MWSYM])

G.W. Rhyne and M.B. Steer. "Generalized Power Series Analysis of Intermodulation Distortion in a MESFET Amplifier - Simulation and Experiment (1987 Vol. I [MWSYM])." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 115-118.

Design of microwave integrated circuits requires accurate simulation tools capable of predicting a variety of nonlinear distortion effects including gain compression and intermodulation distortion. This paper uses the recently developed generalized power series analysis to simulate a MESFET amplifier. For the first time, the simulations are compared to experimental results for single-tone and two-tone inputs. Good agreement is seen. This analysis is suited to any complex analog circuits having arbitrary input frequency spacing.

❑ Return to main document.