Abstracts

Simulation of Intermodulation Distortion in MESFET Circuits with Arbitrary Frequency Separation of Tones

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Design and simulation of microwave integrated circuits requires computer aided analysis tools that can accurately predict a variety of nonlinear distortion effects including gain compression and intermodulation distortion. This paper applies a new frequency domain approach to the simulation of a MESFET amplifier with multifrequency excitation. The unique attributes of the simulation method are that it can be used with general active circuits having multiple input tones of arbitrary amplitude and frequency separation. As an example, gain compression and two-tone intermodulation distortion in a MESFET amplifier are simulated.

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