

Abstracts

Determination of the Transfer Function of a Nonlinear Circuit for Prediction of Intermodulation Characteristics

J.R. Fayos and S.J. Nightingale. "Determination of the Transfer Function of a Nonlinear Circuit for Prediction of Intermodulation Characteristics." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 499-502.

This paper describes a frequency domain analysis technique developed to determine the transfer function of a nonlinear circuit from the harmonic outputs generated when the circuit is driven at specific frequencies by a single, large-signal sinusoid. The technique can be used to analyze power amplifiers and mixers for gain compression, intermodulation distortion, AM to PM conversion, etc. Examples are provided to illustrate the validity and accuracy of this technique.

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