

Abstracts

Control of Circuit Distortion by the Derivative Superposition Method

D. Webster, J. Scott and D. Haigh. "Control of Circuit Distortion by the Derivative Superposition Method." 1996 Microwave and Guided Wave Letters 6.3 (Mar. 1996 [MGWL]): 123-125.

The derivative structure of the characteristics of GaAs FET's naturally gives rise to changes in magnitude and reversals of phase of intermodulation distortion components. An MMIC design method that exploits the phase reversal to achieve control of distortion in an amplifier is presented. An example circuit is designed and its measured performance is compared with that of a conventional amplifier.

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