

Abstracts

Evaluation and Correction of Time Dependent Amplifier Non-Linearity

A. Katz and R. Dorval. "Evaluation and Correction of Time Dependent Amplifier Non-Linearity." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 839-842.

Both very high linearity and wide bandwidth are required by many new microwave and wireless systems. The linearity of power amplifiers degrades with increasing signal bandwidth. This paper shows that this degradation is related to time-dependent changes in amplifier transfer characteristics. A new method for evaluating an amplifier's wide-band, dynamic, linearity is introduced, and strategies for improving the performance of both conventional and linearized amplifiers are discussed.

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