

Abstracts

Characterization of intermodulation distortion in multicarrier transmission systems

K. Naishadham. "Characterization of intermodulation distortion in multicarrier transmission systems." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 2193-2196 vol.3.

This paper proposes the analysis of intermodulation distortion in a multicarrier system, using a method which exploits the relationship between measured nonlinear performance and the signal characteristics of the second and third-order distortion products. This method, based on a power series expansion, is applicable to situations involving many non-harmonically related tones, where harmonic balance analysis becomes impractical.

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