

Characterization of intermodulation distortion in multicarrier transmission systems

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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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