

Abstracts

Statistical modeling of the interaction of multiple signals in nonlinear RF systems

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A nonlinear statistical analysis for modeling distortion, cross modulation, and jammer susceptibility of CDMA signals in a nonlinear RF system is presented. The development of the statistical technique is presented here and applied to various interference scenarios. It is shown that relatively higher nonlinearities must be included in the RF system model so that nonlinear distortion is adequately captured.

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