

Abstracts

Spectral regrowth in microwave amplifiers using transformation of signal statistics

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A method is presented for the estimation of spectral regrowth generated by a digitally modulated carrier passed through a nonlinear RF circuit. The estimation is based on developing an analytical expression, for the autocorrelation of the output signal as a function of the input statistics. A complex power series model extracted from measured AM-AM and AM-PM data is used. Comparisons of measured and predicted ACPR values for a CDMA system are made.

 [Return to main document.](#)