

Abstracts

Spectral regrowth in microwave amplifiers using transformation of signal statistics

H. Gutierrez, K. Gard and M.B. Steer. "Spectral regrowth in microwave amplifiers using transformation of signal statistics." 1999 MTT-S International Microwave Symposium Digest 99.3 (1999 Vol. III [MWSYM]): 985-988 vol.3.

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.

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