

Abstracts

Analysis of CDMA signal spectral regrowth and waveform quality (2001 Vol. I [MWSYM])

V. Aparin. "Analysis of CDMA signal spectral regrowth and waveform quality (2001 Vol. I [MWSYM])." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 5-8 vol. 1.

Spectral regrowth and waveform quality of a reverse-link CDMA signal passed through a weakly nonlinear circuit are analyzed using the power series and statistical methods. The analysis is based on a time-domain model of the signal that gives more accurate distortion estimates than the widely used Gaussian noise assumption. The model is also used to derive the probability density function of the CDMA signal to show its difference from that of the Gaussian noise.

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