Abstracts

A CAD Program and Equations for System Phase and Amplitude Noise Analysis

A novel method for calculating the amplitude and phase noise of component chains is described. The equations for oscillator, amplifier, multiplier, and bandpass filters are discussed. These equations include the upconversion of 1/f noise. A user friendly CAD program is described. This work is important for the calculation of amplifier chain noise, fiber optic receiver jitter, and general system noise analysis.

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