

Computer-Aided Noise Analysis of Integrated Microwave Front-Ends

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The noise performance of autonomous nonlinear subsystems including mixer/LO subassemblies is computed by a perturbative analysis of the quasi-periodic regime generated by the intermodulation of the RF signal with the autonomous local oscillation. It is shown that classical analyses based on the perturbation of the time-periodic LO regime fail to correctly describe the LO contribution to the IF noise.

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