

Abstracts

Signal and noise analysis of large microwave front-ends by the inexact-Newton harmonic-balance technique

V. Rizzoli, F. Mastri and C. Cecchetti. "Signal and noise analysis of large microwave front-ends by the inexact-Newton harmonic-balance technique." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1599-1602.

The analysis of complex front-ends containing many nonlinear devices and supporting signal waveforms with many spectral components can be efficiently handled by the harmonic-balance technique coupled with Krylov-subspace methods. The paper extends this approach to the computation of the front-end noise figure in the presence of a strong interfering signal.

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