

## Modulation-oriented harmonic balance based on Krylov-subspace methods

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V. Rizzoli, A. Neri, F. Mastri and A. Lipparini. "Modulation-oriented harmonic balance based on Krylov-subspace methods." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 771-774 vol.2.

The paper introduces a new approach to the circuit-level analysis of nonlinear RF/microwave (sub)systems driven by digitally modulated carriers. The circuit is simulated by a sequence of modified harmonic-balance analyses based on a Krylov-subspace method driven by an inexact Newton loop. In this way, problems with many million nodal unknowns may be efficiently tackled at the workstation level.

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