Abstracts

Efficient Krylov-subspace simulation of autonomous RF/microwave circuits driven by digitally modulated carriers

Presents a new approach to the simulation of self-oscillating nonlinear circuits excited by modulated RF/microwave carriers and/or dc sources. The analysis is reduced to the solution of a sequence of coupled harmonic-balance systems. A Krylov-subspace method explicitly developed for autonomous circuits and the suppression of any time-domain integration provide a dramatic speed increase with respect to conventional envelope-oriented techniques.

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