

Abstracts

Harmonic Balance and Frequency-Domain Simulation of Nonlinear Microwave Circuits Using the Block Newton Method (Short Papers)

C.-R. Chang, P.L. Heron and M.B. Steer. "Harmonic Balance and Frequency-Domain Simulation of Nonlinear Microwave Circuits Using the Block Newton Method (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.4 (Apr. 1990 [T-MTT]): 431-434.

An efficient algorithm using block Newton and chord methods is presented for the iterative minimization of the spectral balance error in the analysis of nonlinear microwave circuits. This algorithm is used in the harmonic balance and frequency-domain, spectral balance simulation of a MESFET amplifier with single-tone and two-tone excitation.

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