Abstracts

General-Purpose Harmonic Balance Analysis of Nonlinear Microwave Circuits Under Multitone Excitation

V. Rizzoli, C. Cecchetti, A. Lipparini and F. Mastri. "General-Purpose Harmonic Balance Analysis of Nonlinear Microwave Circuits Under Multitone Excitation." 1988 Transactions on Microwave Theory and Techniques 36.12 (Dec. 1988 [T-MTT] (1988 Symposium Issue)): 1650-1660.

This paper describes a powerful software tool for the simulation of nonlinear microwave circuits under single- or multiple-frequency excitation. The program operates in a truly general-purpose fashion, both circuit topology and active devices equivalent circuits being arbitrarily established by the user at the data entry level. Built-in facilities based on the multidimensional Fourier transform allow a straightforward and unrestricted treatment of mixer and intermodulation problems. Application capabilities are illustrated by a number of practical examples.

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