

Abstracts

Numerical Optimization of Broadband Nonlinear Microwave Circuits

V. Rizzoli, A. Costanzo and C. Cecchetti. "Numerical Optimization of Broadband Nonlinear Microwave Circuits." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 335-338.

The paper describes the implementation of extensive optimization capabilities in a general-purpose harmonic-balance simulator. Two different optimizers suitable for autonomous and forced circuits, respectively, are discussed in detail, and their merits and limitations are compared. The efficient numerical optimization of nonlinear microwave circuits specified over a finite frequency band is demonstrated for the first time.

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