

Abstracts

The Use of Hopf Bifurcations LOCI for Spurious-Free Nonlinear Microwave Circuit Design

V. Rizzoli and A. Neri. "The Use of Hopf Bifurcations LOCI for Spurious-Free Nonlinear Microwave Circuit Design." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1089-1092.

Bifurcation theory is coupled with harmonic-balance techniques into a powerful CAD tool for the design of stable nonlinear microwave circuits and subsystems. Automatically generated Hopf bifurcations loci provide detailed information on the role of selected circuit parameters in the generation of spurious tones, and are effectively used in support to ordinary optimization to produce spurious-free circuit topologies.

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