Abstracts

A Krylov-subspace technique for the global stability analysis of large nonlinear microwave circuits

V. Rizzoli, F. Mastri, E. Furini and A. Costanzo. "A Krylov-subspace technique for the global stability analysis of large nonlinear microwave circuits." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 435-438 vol.1.

The paper discusses a new approach to the global stability analysis of large nonlinear microwave circuits for which Nyquist's analysis is not usable owing to the size of the characteristic equation. Making use of a Krylov method for autonomous circuits, a state lying on the bifurcated branch close enough to the bifurcation may be efficiently located. The bifurcated branch may then be found by ordinary continuation.

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