Abstracts

A synthesis-oriented conditional stability criterion for microwave multidevice circuits with complex termination impedances

F. Centurelli, G. Scotti, P. Tommasino and A. Trifiletti. "A synthesis-oriented conditional stability criterion for microwave multidevice circuits with complex termination impedances." 2000 Microwave and Guided Wave Letters 10.11 (Nov. 2000 [MGWL]): 460-462.

In this work, a new conditional stability criterion for multidevice circuits is proposed, in order to guarantee stability in spite of input and output termination variations in regions surrounding complex nominal values. A check of this criterion can be implemented in a commercial CAD environment, and this allows imposing stability from within an optimization routine. A design methodology to synthesize multidevice circuits with complex termination impedances, which are stable under both process parameters and terminations variations, is proposed.

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