Abstracts

Analysis and elimination of parametric oscillations in monolithic power amplifiers

A. Anakabe, J.-M. Collantes, J. Portilla, J. Jugo, A. Mallet, L. Lapierre and J.-P. Fraysse. "Analysis and elimination of parametric oscillations in monolithic power amplifiers." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 2181-2184 vol.3.

This work describes an analysis and design methodology for eliminating parametric oscillations in microwave power amplifiers. Large-signal stability analyses based on system pole-zero identification techniques are proposed to guide the design process towards a stable circuit. In order to demonstrate the proposed approach, parametric oscillations of a Ku-band MMIC power amplifier have been eliminated, while maintaining the original performances of the circuit.

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