

Abstracts

A unified approach of PM noise calculation in large RF multitone autonomous circuits

P. Bolcato, J.C. Nallatamby, R. Larcheveque, M. Prigent and J. Obregon. "A unified approach of PM noise calculation in large RF multitone autonomous circuits." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. I [MWSYM]): 417-420.

This paper presents a simulation method to compute noise in autonomous and forced circuits using the harmonic balance (HB) formulation. Thanks to iterative linear solvers and multi-dimension conversion matrices, it can handle large multi-tone circuits to calculate phase noise spectra near and far from the carrier frequency. Its efficiency is illustrated with two real circuits.

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