Abstracts

Novel artificial frequency mapping techniques for multi-tone simulation of mixers

N. Borges de Carvalho and J.C. Pedro. "Novel artificial frequency mapping techniques for multi-tone simulation of mixers." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 455-458 vol.1.

This paper describes two new artificial frequency mapping techniques suitable for the simulation of RF/microwave mixers when excited by a multi-tone signal. Due to the gained computational efficiency, it is for the first time possible to simultaneously analyze small and large signal behavior of nonlinear mixers subject to real multi-tone signals. Besides the theoretical study, illustrative simulation results are also given.

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