

Abstracts

A General-Purpose Harmonic-Balance Approach to the Computation of Near-Carrier Noise in Free-Running Microwave Oscillators

V. Rizzoli, F. Matri and D. Masotti. "A General-Purpose Harmonic-Balance Approach to the Computation of Near-Carrier Noise in Free-Running Microwave Oscillators." 1993 MTT-S International Microwave Symposium Digest 93.1 (1993 Vol. I [MWSYM]): 309-312.

The paper discusses a novel harmonic-balance approach to the computation of near-carrier phase and amplitude noise in free-running microwave oscillators. The well-known qualitative picture of phase noise generation is quantitatively re-stated in a way compatible with the needs of general-purpose CAD. The capabilities of previously available approaches to the same problem are extended under several aspects.

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