

## Rigorous RF and microwave oscillator phase noise calculation by envelope transient technique

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*E. Ngoya, J. Rousset and D. Argollo. "Rigorous RF and microwave oscillator phase noise calculation by envelope transient technique." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 91-94.*

A novel method is presented which allows accurate calculation of RF and microwave oscillator phase noise. A thorough frequency domain amplitude and phase noise equation is derived for arbitrary circuit topology. The method is based on envelope transient simulation technique. It also speeds up analysis of oscillator transients and circuits driven by chirp and frequency modulated signals.

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