Abstracts

Nonlinear Synchronized LC Oscillators: Theory and Simulation

M. Odyniec. "Nonlinear Synchronized LC Oscillators: Theory and Simulation." 1993 Transactions on Microwave Theory and Techniques 41.5 (May 1993 [T-MTT]): 774-780.

The paper presents a rigorous analysis of synchronized oscillators. The analyzed circuits exhibit strongly nonlinear behavior such as frequency lock and existence of multiple solutions and yet their behavior can be fully determined by large signal characteristics obtained from harmonic balance simulation. The results can be directly applied to diode and transistor oscillators and can also serve as a benchmark in testing nonlinear simulators.

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