Abstracts

Analysis of Chaotic Behaviour in Lumped-Distributed Circuits Applied to Practical Microwave Oscillators

E.A. Hosny, A.A.A. Nasser and M.I. Sobhy. "Analysis of Chaotic Behaviour in Lumped-Distributed Circuits Applied to Practical Microwave Oscillators." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1569-1572.

A general method for the analysis of prechaotic and chaotic behaviors in lumped-distributed circuits has been developed. Examples of practical microwave oscillators, namely GUNN and IMPATT oscillators were designed. The simulation and measurement results showed that these oscillators possess regions of periodic, quasi-periodic, and chaotic spectra. The method could be used by circuit designers to design chaos free oscillators.

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