

# Abstracts

## Automatic Generation of Starting Values for the Simulation of Microwave Oscillators by Frequency Domain Techniques

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*M. Fillebock, M. Schwab and P. Russer. "Automatic Generation of Starting Values for the Simulation of Microwave Oscillators by Frequency Domain Techniques." 1993 Transactions on Microwave Theory and Techniques 41.5 (May 1993 [T-MTT]): 809-813.*

In this paper a new approach to the start-up problem inherent to the large-signal analysis of autonomous circuits in the frequency domain is presented. By insertion of a simple network, depending on one parameter, the oscillator is damped to the stability limit where a linear analysis yields good results. The steady state of the undamped oscillator is then obtained by a continuation method corresponding to the successive removal of the damping network. With this procedure the degenerate solution may be excluded in a straightforward manner.

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