Abstracts

Large-Signal Computer-Aided Analysis and Design of Silicon Bipolar MMIC Oscillators and Self-Oscillating Mixers

I. Kipnis and A.S. Khanna. "Large-Signal Computer-Aided Analysis and Design of Silicon Bipolar MMIC Oscillators and Self-Oscillating Mixers." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 558-564.

This paper presents a large-signal analysis and design of silicon bipolar monolithic microwave integrated circuit (MMIC) feedback oscillators and self-oscillating mixers, emphasizing the modeling of the active and passive devices and the large-signal analysis and design of nonlinear circuits using SPICE. Measured and simulated data of a C-band self-oscillating mixer are presented.

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