

Abstracts

A novel approach to the analysis of microwave regenerative analog frequency dividers

K.-K.M. Cheng and Chun-Wah Fan. "A novel approach to the analysis of microwave regenerative analog frequency dividers." 1998 Microwave and Guided Wave Letters 8.7 (Jul. 1998 [MGWL]): 266-267.

The authors present a CAD-oriented approach to the analysis of regenerative analog frequency dividers based upon the Volterra series method. Design information such as locking frequency range and minimum injected power levels can easily be found from the determining equation thus obtained. Locking performances of a MESFET analog 1/3 frequency divider evaluated by the proposed method and a time-domain simulator are included.

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