Abstracts

Optimal CAD of MESFETs Frequency Multipliers with and without Feedback

C. Guo, E. Ngoya, R. Quere, M. Camiade and J. Obregon. "Optimal CAD of MESFETs Frequency Multipliers with and without Feedback." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 1115-1118.

In this paper, we propose a method to derive the optimal operating-conditions of a given MESFET to obtain an optimum frequency multiplier. The key point of this approach is that no topology of the embedding network is to be chosen "a priori". The optimum bias voltages and the optimum load impedances (including possible feedback circuit) are found as results of the method. This new method allows to know the ultimate performances that can be achieved by a given device working as frequency multiplier.

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