Abstracts

Optimal Computer-Aided Design of Monolithic Microwave Integrated Oscillators (Short Papers)

Y. Xuan and C.M. Snowden. "Optimal Computer-Aided Design of Monolithic Microwave Integrated Oscillators (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.9 (Sep. 1989 [T-MTT] (Special Issue on FET Structures Modeling and Circuit Applications)): 1481-1484.

A technique for the optimal computer-aided design of MMIC oscillators is described. A novel dual-source technique is used in conjunction with the device computer simulation in order to obtain the terminating impedances required by the FET, which ensures the optimal circuit conditions to obtain the required frequency and power output from the oscillator. A number of GaAs MESFET MMIC oscillators have been designed and fabricated. Experimental results agree very closely with the predicted data for the complete set of working circuits.

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