

MMIC Oscillator Simulation Considering Bias-Voltage Dependence

V. Gungerich, B. Janke, F. Zinkler, W. Heinrich and P. Russer. "MMIC Oscillator Simulation Considering Bias-Voltage Dependence." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 989-992.

For two different types of MMIC FET-oscillators, simulation results obtained by state-of-the-art methods of analysis are compared with measurements for a wide range of drain bias-voltage. Quantitatively, agreement is not yet satisfactory for practical applications. The deviations can be attributed not only to uncertainties in the non-linear FET model but also to inherent properties of the methods of analysis.

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