

Abstracts

Simulation of Optically Injection-Locked Microwave Oscillators Using a Novel Spice Model (Short Papers)

D. Warren, J.M. Golio and E. Johnson. "Simulation of Optically Injection-Locked Microwave Oscillators Using a Novel Spice Model (Short Papers)." 1988 Transactions on Microwave Theory and Techniques 36.11 (Nov. 1988 [T-MTT]): 1535-1539.

Optical injection locking of GaAs FET microwave oscillators has been examined experimentally as well as by using two different optical interaction models. A novel first-order interaction model which utilizes a standard version of SPICE has been developed which produces predictions of injection locking range in excellent agreement with measured results.

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