

Abstracts

Impedance and Switching of GaAs p-i-n Diodes (Short Papers)

Z. Abid and A. Gopinath. "Impedance and Switching of GaAs p-i-n Diodes (Short Papers)." 1990 *Transactions on Microwave Theory and Techniques* 38.10 (Oct. 1990 [T-MTT]): 1526-1528.

The impedance of GaAs p-i-n diodes under forward bias is modeled using the two-dimensional simulation program PISCES. The capacitance and resistance, representing the parallel equivalent circuit of the diode, are constant over a wide frequency range. The switching transient of the p-i-n diode is also modeled and it is found that switching time is determined by the sweep out time of the carriers and not by the carrier lifetime.

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