

Abstracts

The Optical Performance of Microwave Transistors

L.E.M. de Barros, Jr., A. Paolella, P.R. Herczfeld and A.A.A. de Salles. "The Optical Performance of Microwave Transistors." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1445-1448.

This paper renders a thorough analysis of the optical properties of microwave transistors, HBT, MESFET and HEMT. The principal photoresponse mechanisms are identified and compared in terms of gain, frequency response and sensitivity. The paper highlights newly observed effects in the HBT, where high speed and gain are realizable.

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