

Abstracts

Optical Control of Microwave Semiconductor Devices

A.J. Seeds and A.A.A. de Salles. "Optical Control of Microwave Semiconductor Devices." 1990 Transactions on Microwave Theory and Techniques 38.5 (May 1990 [T-MTT] (Special Issue on Applications of Lightwave Technology to Microwave Devices, Circuits, and Systems)): 577-585.

The use of optical signals to control the operation of microwave amplifiers, oscillators, switches, and mixers is reviewed. Among the active devices treated are Gunn and IMPATT oscillators, MESFET and HEMT amplifiers, oscillators, and mixers, and diode mixers. Future directions for research in this area are discussed.

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