

Abstracts

Ultrafast Optoelectronic Devices for Millimeter-Waves

C.H. Lee, A.M. Vaucher, M.G. Li and C.D. Striffler. "Ultrafast Optoelectronic Devices for Millimeter-Waves." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 103-105.

We discuss a new class of devices in which the propagation parameters of millimeter-waves are controlled by a laser induced electron-hole plasma in a semiconductor waveguide. The performance of high speed (better than one nanosecond), efficient millimeter-wave phase shifters, modulators, switches, and gating devices are reported.

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