Abstracts

Optically Controlled Microwave Devices and Circuits

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There is a growing interest in optically controlled microwave devices and systems. This paper is concerned with two experiments in this emerging area. The first describes the design, fabrication and application of optically controlled microwave PIN diodes. The utilization of these devices for phase-shifting and switching at X-band was demonstrated. The second experiment involved the optical tuning and indirect optical injection locking of a X-band dielectric resonator oscillator. A locking range of 400 KHz was achieved utilizing a third harmonic.

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