

Abstracts

Optical Generation and Control of Microwaves and Millimeter-Waves

C.H. Lee. "Optical Generation and Control of Microwaves and Millimeter-Waves." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 811-814.

I report the generation and control of microwaves and millimeter-waves by optoelectronic techniques. Complete time synchronization between microwave and optical signals is achieved. RF waveform generations, ranging from one single cycle to continuous wave with peak power up to a few kilowatts, have been demonstrated. Laser controlled phase shifters, switches and modulators at 94 GHz are described. The state-of-the-art in the general area of microwave optical interactions is reviewed.

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