

Abstracts

Picosecond Optics and Microwave Technology

C.H. Lee. "Picosecond Optics and Microwave Technology." 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)): 596-607.

Progress in the application of ultrafast optics to microwave and millimeter-wave technology using picosecond photoconductors is reviewed. The generation, control, and characterization of both pulsed and CW high-frequency waves using a frozen wave generator, an impulse excited resonator, and a spectral filter are presented. A time-domain network analyzer which uses optoelectronic techniques for on-wafer monolithic microwave and millimeter-wave integrated circuit measurements is described.

 [Return to main document.](#)