

Microwave Modulation of Optical Signal by Electro-Optic Effect in GaAs Microstrips

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The microwave modulation of the interference generated by light beams reflected from the top and bottom surfaces of GaAs substrate and adjacent to a microstrip line has been used to directly measure the electro-optic (E-O) effect. This sampling technique of the time-domain waveform of a microwave signal based on the harmonic mixing mechanism results in a highly sensitive method for determining the E-O effect in the substrate.

 [Return to main document.](#)