

Abstracts

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

M.G. Li, E.A. Chauchard, C.H. Lee and H.-L.A. Hung. "Microwave Modulation of Optical Signal by Electro-Optic Effect in GaAs Microstrips." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 945-948.

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.

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