

Abstracts

MMIC Based Optical Modulator Design

M.T.C. Silva and P.R. Herczfeld. "MMIC Based Optical Modulator Design." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 571-574.

The work presented in this paper concerns the development of an MMIC based optical modulator, a key element of the chip level integration of photonic and microwave components. The fundamental interaction between microwaves and light is depletion of carriers, which modulates the index of refraction. The carrier modulation gives rise to a field induced grating, which yields a modulated optical signal.

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