

Abstracts

Self-bias control of electroabsorption waveguide modulator

G.L. Li, R.B. Welstand, J.T. Zhu and P.K.L. Yu. "Self-bias control of electroabsorption waveguide modulator." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1007-1010.

For analog fiber optic links using electroabsorption modulators, the correlation between the RF link gain and the modulator photocurrent is investigated both theoretically and experimentally. Based on this correlation, a self-bias control scheme of the electroabsorption modulator for maximum RF link gain is proposed. This scheme can simplify the bias control of modulator arrays.

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