Abstracts

RF Gain Stabilization of a Directly Modulated Optical Link Using Detector Current Normalization

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We report the theoretical basis for, and experimental demonstration of, a technique which uses the average photodetector current to stabilize the RF gain of a directly modulated optical link. The initial results showthat a 9 dB change in link gain can be reduced to less than 0.4 dB. The possibility of extending the technique to stabilizing the noise figure is also briefly discussed.

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