All-optical 2R regeneration based on interometric structure incorporating semiconductor optical amplifiers

All-optical 2R regeneration in an SOA-based interferometric Michelson structure using a novel technique is experimentally demonstrated. An output extinction ratio of ~10 dB is measured for an input extinction ratio of 6 dB and a noise suppression capability of ~4.5 dB is obtained, clearly demonstrating the feasibility of this technique.

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