

Abstracts

Regeneration of 1-Gbit/s Signals After Transmission Over an Optical Fiber

U. Wellens and B.G. Bosch. "Regeneration of 1-Gbit/s Signals After Transmission Over an Optical Fiber." 1979 MTT-S International Microwave Symposium Digest 79.1 (1979 [MWSYM]).

A circuit containing step-recovery diodes is used to regenerate signals in the 1Gbit/s range: A PN sequence modulates a GaAlAs laser and is then transmitted over 0.91 km of graded-index fiber. The received signal, distorted mainly due to fiber dispersion, is fully restored to the original NRZ format.

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