

Abstracts

Optical Fiber Communication and Integrated Optics (Abstract)

E.A.J. Marcatili. "Optical Fiber Communication and Integrated Optics (Abstract)." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 111-111.

In about ten years, efficient research and diligent technology have carried the field of optical communication to such a level that many systems operating with a wide range of requirements have been developed throughout the world. Thus, cables containing up to more than one hundred easy-to-splice multimode fibers can transmit thousands of telephone channels; injection lasers and light emitting diodes made of GaAlAs operating at about $0.85\mu\text{m}$ can be directly modulated at rates as high as hundreds of MHZ; silicon PIN and the more sophisticated avalanche gain detectors, both with superb characteristics, are widely used.

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