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As a result, there is renewed interest in phase-modulated optical communications, mainly in direct-detection DPSK signals for long-haul optical communication systems. When optical amplifiers are used to maintain certain signal level among the fiber link, the system is limited by amplifier noises and fiber nonlinearities. Phase-Modulated Optical Communication Systems surveys this newly popular area, covering the following topics: - The transmitter and receiver for phase-modulated coherent ...

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As a result, there is renewed interest in phase-modulated optical communications, mainly in direct-detection DPSK signals for long-haul optical communication systems. Fiber-optic communication systems have revolutionized our telecommunication infrastructures -- currently, almost all telephone land-line, cellular, and internet communications must travel via some form of optical fibers.

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Phase-Modulated Optical Communication Systems

An electro-optic modulator (EOM) is an optical device in which a signal-controlled element exhibiting an electro-optic effect is used to modulate a beam of light. The modulation may be imposed on the phase, frequency, amplitude, or polarization of the beam. Modulation bandwidths extending into the gigahertz range are possible with the use of laser-controlled modulators.

Electro-optic modulator - Wikipedia

Fiber-Optic Communication Systems Third Edition GOVIND E? AGRAWAL The Institute of Optics University of Rochester Rochester: NY 623 WILEY-INTERSCIENCE

'Introduction'. In: Fiber-Optic Communication Systems

To transmit more information in a single optical carrier, the phase of the optical carrier must be explored. As a result, there is renewed interest in phase-modulated optical communications, mainly...

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Phase modulation is defined as the process in which the instantaneous

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phase of the carrier signal is varied in accordance with the instantaneous amplitude of the modulating signal. In this type of modulation, the amplitude and frequency of the carrier signal remains unaltered after PM.

Phase Modulation - Equation of Phase Modulation PM wave ...

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Quadrature amplitude modulation (QAM) is the name of a family of digital modulation methods and a related family of analog modulation methods widely used in modern telecommunications to transmit information. It conveys two analog message signals, or two digital bit streams, by changing (modulating) the amplitudes of two carrier waves, using the amplitude-shift keying (ASK) digital modulation ...

Quadrature amplitude modulation - Wikipedia

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Self-phase modulation in optical fibers may be used to realize artificial ultrafast saturable absorbers, in which loss or transmission depends on instantaneous optical intensity. Such devices are extremely useful for sub-picosecond optical pulse generation and switching in optical fiber, and for mode locking fiber lasers.

Phase Modulation - an overview | ScienceDirect Topics

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employing PAM-8 modulation with phase shifted Manchester coding. Opt. Express 24 , 21 663-21 673.

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