

Acousto-optic modulators (AOMs) are active optical components that play a crucial role in modulating light signals within communication systems.

Optical modulators are devices that modify the properties of light, such as its amplitude, phase, frequency, or polarization, in response to an external signal. These devices play a crucial role ...

First, the active mode-locking design which uses an externally controlled, electrically-driven modulator element. Second, passive mode-locking with a fast saturable absorber, which exploits modulation ...

A wide range of optical modulators are used in very different application areas, such as in optical fiber communications, displays, for active Q-switching or mode locking of lasers, and in optical metrology.

Integrated optical modulators consist of active and passive planar optical waveguides designed and fabricated on semiconductor-based integrated photonics platforms.

Optical modulation is accomplished by varying the optical susceptibility of the modulator material. Depending on whether the real or imaginary part of the ...

Optical modulators are used with superconductors which work properly only at low temperatures, generally just above absolute zero. Optical modulators convert information carried by an electric ...

Common optical active components in optical communications include: semiconductor light sources, semiconductor photodetectors, fiber lasers, optical amplifiers, optical modulators, etc.

Optical modulators are crucial devices used for controlling and manipulating light properties, primarily to modulate various aspects of light waves. They enable the modification of optical wave characteristics ...

Optical modulators are another crucial active component for controlling existing light signals. These devices use electric fields to change the refractive index of materials, enabling rapid switching or ...

Active integrated photonics for visible light promises a solution, especially with recent materials and fabrication advances.

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