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Optical Modulator Based On Gaas

In this letter, we propose a novel optical modulator based on GaAs photonic crystals and investigate its optically properties numerically by using the finite-difference time-domain method. The position of the cutoff frequency can be varied by free carriers injection, and the band gap shift can be observed. Band gap shift is used to modulate light.

Optical modulator based on GaAs photonic crystals

A novel electrooptic modulator, based on GaAs, is proposed. The device can be fabricated on a GaAs substrate in the following manner. The optical confinement required to obtain the waveguide is ...

(PDF) A novel GaAs optical waveguide electrooptic modulator

Electro-Optic Mode Converter. The Versawave 40 & 50 Gb/s Amplitude Modulators represent a revolutionary method for modulating CW laser light into data carrying optical pulse trains. By employing proprietary GaAs technology, the Versawave modulators establish new benchmarks for low drive voltage, ultra-wide bandwidth, and chirp-free operation within a small footprint.

Amplitude Modulators | Versawave Technologies

independent GaAs-AlGaAs interferometric optical modulator based on this design has been fabricated and characterized at 1.3 μm. This modulator is fabricated as a traveling wave modulator incorporating 50 (1, phase velocity matched, low microwave loss electrodes for maximum electrical bandwidth. 1. INTRODUCTION P

OF A Polarization Independent GaAs-AlGaAs Electrooptic ...

We have studied InGaAs/GaAs quantum well (QW) lasers with an intracavity saturable absorber grown on (111)B GaAs. The ef...

GaAs quantum well lasers with intracavity optical modulator

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The aXSD2050 is a compact, high-performance electro-optic IQ modulator based on gallium arsenide (GaAs) guided-wave technology. It is ideal for applications where space and weight are at a premium: e.g. QPSK and QAM encoding up to 60Gbd, single-sideband modulation or RF mixing up to 60GHz.

Products - Optical Modulators - Axenic Ltd

35GHz, 3V GaAs MZ Modulator based on ground-strapped CPW coplanar system. This MZM adopts the industry-standard OIF (Optical Internetworking Forum) layout, designed primarily for lithium niobate (LN) modulators. Lithium niobate waveguides are weakly confining and consequently cannot implement low-loss small-radius bends.

Electro-optic modulators for space using gallium arsenide

Electro-optical probing of envelope wavefunctions in GaAs/AlGaAs parabolic quantum well structures. ... quadratically decreasing transition energies for the various interband subband transitions as well as in a systematic modulation of their oscillator strengths. This modulation is due to the alternately constructive and destructive overlaps of ...

Electro-optical probing of envelope wavefunctions in GaAs ...

Thorlabs' selection of electro-optic (EO) modulators includes free-space and fiber-coupled LiNbO3 modulators. Free-space amplitude, phase, or resonant modulators can operate at speeds up to 100 MHz. We also offer liquid crystal EO modulators for speeds up to 2.5 kHz.Fiber-coupled intensity, phase, or IQ modulators for speeds up to 40 GHz can be driven by our EO modulator drivers.

Electro-Optic Modulators - Thorlabs

An acousto-optic modulator (AOM), also called a Bragg cell or an acousto-optic deflector (AOD), uses the acousto-optic effect to diffract and shift the frequency of light using sound waves (usually at radio-frequency).They are used in lasers for Q-switching, telecommunications for signal modulation, and in spectroscopy for frequency control. A piezoelectric transducer is attached to a material ...

Acousto-optic modulator - Wikipedia

GaAs/AlGaAs Traveling Wave Electro-optic Modulators R. Spickermann, S. R. Sakamoto, and N. Dagli| Department of Electrical and Computer Engineering University of California Santa Barbara, CA 93106 ABSTRACT A GaAs/AlGaAs traveling wave Mach-Zehnder electro-optic modulator with novel slow wave electrodes was fabricated on undoped epitaxial layers.

GaAs/AlGaAs Traveling Wave Electro-optic Modulators

Electro-optic modulator. from THORLABS; 40 Gbit/s Phase Modulator The 40 Gbit/s Phase Modulator is a high performance, low drive voltage External Optical Modulator designed for customers developing next generation 40G transmission systems. The increased bandwidth allows for chirp control in high-speed data communications.

Optical modulators using semiconductor nano-structures ...

In this design, optical mode is entirely contained within the core and claddings and there is no mode interaction with heavily doped GaAs layers as well as the buffer layers and Si substrate. Electrically the optical waveguide doping profile ispnin which is equivalent to back to back diodes connected in series. Top diode consists ofn+GaAs/nAl

Intensity and Phase Modulators at 1.55 μm in GaAs/AlGaAs ...

For example, single photon sources based on InAs/GaAs QDs have demonstrated unrivalled performance in terms of single photon purity, indistinguishability, and brightness 13,14,15,16,17, and thus ...

Photoluminescence of InAs/GaAs quantum dots under direct ...

Optical Design. aXenic are leaders in the design, development and production of optical modulators for communications and sensing, particularly in the field of satellite communications. Testing. Specialising in semiconductor design including GaAs and InP, packaging and test and measurement; aXenic have the flexibility to offer you everything from a custom device design and prototyping solution to a fully qualified production run.

Optical Modulators - Axenic Ltd

Versawave has developed and launched a 40 Gb/s modulator for fiber optic applications. Versawave's modulation components employ a GaAs (Gallium-Arsenide) based substrate using a patented configuration of slow-wave electrodes for mode conversion. Unlike conventional Mach-Zehnder technologies, this proprietary design produces greatly reduced drive voltage, extended bandwidth and zero chirp.

About | Versawave Technologies

The modulator is based on graphene on germanium (GOG), which allow a pumping light with 1.3-1.55 μm wavelength since Ge has a small bandgap of 0.66 eV.