Fiber optic array planar waveguide

These design of these devices are based on an array of and demultiplexers in a Wavelength Division Multiplexed (WDM) waveguides with both imaging and dispersive properties.

We propose and experimentally demonstrate a fiber spectrum analyzer based on a planar waveguide chip butt-coupled with an input fiber and aligned to a standard camera without any free ...

The integration of silicon waveguides and optical fibers in compact spaces poses a significant obstacle to the implementation of fiber optics in data centers. We have devised solutions to overcome this ...

To achieve miniaturization and integration of FBG interrogator, we designed and fabricated a 36-channel array waveguide grating (AWG) on silica-based planar lightwave circuits (PLC) as a key device in a ...

3.46 PHOTONIC MATERIALS AND DEVICES Lecture 5: Waveguide Design--Optical Fiber and Planar Waveguides Lecture

What is an arrayed waveguide grating? An arrayed waveguide grating (AWG) is a device, typically built as a planar lightwave circuit, that can separate or combine optical signals of different wavelengths. It ...

Arrayed waveguide gratings (AWG) are commonly used as optical (de)multiplexers in wavelength division multiplexed (WDM) systems. These devices are capable of multiplexing many wavelengths ...

Features & Benefits High numerical aperture -- Bend insensitive fiber for miniature packages Thermally expandable core -- Low splice loss to transmission fiber Small Mode Field Diameter -- High ...

Planar lightwave circuits (PLC) are the backbone of passive optical components used in fiber-optic communication networks. Built on silica or silicon-based substrates, PLC devices use ...

Although we study a particular waveguide geometry above, the slab waveguide, several important concepts are applicable to any waveguide, and can be illustrated with the slab waveguide.

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