Bukina Faso Array Waveguide Grating Energy-Saving and Cost-Effective

1 × 8 and 1 × 16 traditional/saddle arrayed waveguide grating (AWG) devices with different core layer materials applied in fiber Bragg grating (FBG) system were designed, fabricated and ...

Array waveguide gratings (AWGs) have been widely used in multi-purpose and multi-functional integrated photonic devices for Microwave photonics (MWP) systems. In this paper, we ...

The proposed work aims to design a single-etch grating antenna on a silicon-on-insulator (SOI) platform that emits light off-chip. The methodology combines the initial grating antenna ...

In this study, two SiN-based Arrayed Waveguide Gratings (AWGs) were designed and fabricated: one serving as a wavelength multiplexer (MUX) and the other as a demultiplexer ...

In this review, an overview of the available methods for improving the bandwidth, spectral resolution, and transmission function shape of AWGs is provided. The working principle as well as the advantages ...

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 fabricated arrayed waveguide grating devices in Silicon-on-insulator using CMOS based processes. Devices using lower index contrast star couplers by applying two etch steps show reduced insertion ...

---------- Abstract - An array waveguide grating multiplexer and demultiplexer in particular is one of most successful optical filters and it is a key component of photo.

Here, we present a high-resolution 65-channel AWG-assisted OPA with 5 inputs. Ultra-low loss silicon nitride waveguide technology and transverse magnetic mode operation are employed ...

A high-performance, low-cost wavelength interrogation method for FBG sensors was introduced in this paper. The information from the FBG sensor signal was extracted by the array ...

It examines the current state of energy infra-structure in Burkina Faso, focusing on the integration of renewable energy sources, particularly solar photovoltaics.

Fig. 1 Cross-section of the waveguide structure characterized and discussed in this work. The fundamental TE mode simulated at k0 = 1,550 nm is shown

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