

We start with the eigenmode solver to calculate the modal properties of a single waveguide and a slab. This is followed by the varFDTD simulation to further characterize the properties of beam that gets ...

Arrayed waveguide grating is a versatile and scalable integrated light dispersion device, which has been widely adopted in various applications, ...

Another highly effective method to reduce the insertion loss of an AWG, which is based on the same idea of tapering, has been patented by Lucent: A segmented transition region is inserted between ...

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.

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 ...

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.

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 ...

o The characterization and fabrication of AWGs with different polymer were compared. o The polymer AWG can be applied to signal demodulation of wearable devices.

Arrayed waveguide grating is a versatile and scalable integrated light dispersion device, which has been widely adopted in various applications, including, optical communications and optical...

Using a Si<sub>3</sub>N<sub>4</sub>-based AWG design, the note demonstrates how the tool can model a large-scale, low-loss AWG structure with 16 output channels. The simulation uses 3D Effective Index Method (EIM) to ...

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 ...

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