

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 ...

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 is also possible to do this in a single device called an arrayed waveguide grating. The arrayed waveguide grating (AWG) looks a bit like a very complex MZI, but it is easier to understand it as a ...

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 ...

Array Waveguide Gratings (AWG) are commonly used in WDM systems as optical WDM multiplexers, which are capable of compounding many wavelengths of light into a single fiber at the input end with ...

This application note highlights the improved capabilities of the RSoft Arrayed Waveguide Grating (AWG) Utility, which now supports easy switching between 2D, 3D and 3D Effective Index Method ...

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 ...

The structures of the AWGs we designed are composed of five main parts, including the input/output waveguides, two slab waveguides, and an array of waveguides, as shown in Fig. 1 (b).

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.

Arrayed waveguide gratings are optical filter or multiplexer devices based on arrays of waveguides.

Open the `Arrayed_waveguide_grating_varFDTD.lms` file that contains the basic AWG setup. Edit the AWG analysis group, set `simulation_type` to 1 (input coupler) and the `taper_waveguides` setting to 0.

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