

In this paper, an excellent wide band 1 × 3 beam splitter of double-groove fused-silica gratings under normal incidence and TE-polarization is presented around the telecommunication ...

In this paper, we have fabricated a novel, ultra-compact grating-based beam splitter with low scattering loss and splitting ratio close to and greater than 50%.

This grating consists of a series of equally spaced, parallel lines or rulings. These rulings act as a periodic structure that interacts with incident light waves.

This method can realize an arbitrary calculation on the optimal incident angle of polarization beam splitting with any grating constants, avoiding the problem of the Littrow mounting ...

Double-groove fused-silica gratings for 1 × 5 and 1 × 7 TE-polarization beam splitting under normal incidence are studied. The grating profiles are optimized by use of the rigorous coupled-wave ...

We present the design and fabrication of a novel dual-function subwavelength fused-silica grating that can be used as a polarization-selective beam splitter. For TM ...

Transmission Grating Beamsplitters are available in several gratings, offering different dispersion and power distributions. The diffraction angle for any wavelength may be calculated using the grating ...

In this paper, a novel dual-functional grating beam splitter is presented, designed to exhibit unique diffraction characteristics for transverse electric (TE) and transverse magnetic (TM) ...

We have a wide range of 2D diffraction beamsplitter gratings with a maximum dot pattern of 33 × 33 over any area, and an optimum diffraction efficiency of 80%-90%.

This paper proposed a 1 × 2 beam splitter grating at wavelength 1550nm which can realize near-90-degree of phase delay between TE and TM polarizations in both zero order and -1st order ...

Tutorial for design and integration of 1D and 2D Diffractive Beam Splitters (Multi-spot) into optical systems in Sequential and non-Sequential mode of ZEMAX™

A unified design for a 1 × 2 beam splitter of dielectric rectangular transmission gratings under the second Bragg incidence is theoretically investigated for TE- and TM-polarized light.

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