

Fiber Bragg Gratings and Dual Wavelengths



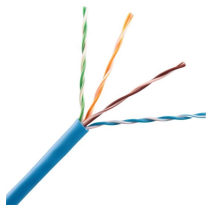
Fiber Bragg Gratings and Dual Wavelengths



To reduce the signal crosstalk, we design two novel types of 10-kilometer-long FBG arrays with 10 000 equally spaced gratings, written on-line using a customized grating inscription system, which is ...



At a special combination of the orientation angles of the QWPs, the inline filter can be arranged so that its transmittance depends on input polarization, and it can also select the output ...



As conventional methods have met difficulties in harsh weather, a 110 kV composite insulator with embedded fiber Bragg gratings (FBGs) was proposed for detecting glaze icing in this paper.



Due to the wavelength dependence of reflection and transmission, a Bragg grating can serve as an optical filter. As the crucial function of a Bragg grating is usually to reflect light, it can also be called a ...



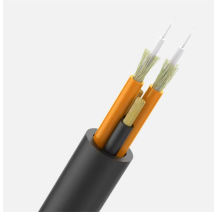
By using dual-wavelength fiber-optic Bragg gratings, a new technique has been developed for sensing both temperature and strain simultaneously in cryogenic temperature range.



In this paper, identical dual-wavelength fiber Bragg gratings (FBGs) are theoretically proposed and experimentally demonstrated. On the assistance of the Fourier theory, the gratings ...



We discuss how the dual-wavelength differential detection (DWDD) of fiber Bragg grating sensors can be used to build standardized high-resolution, high-accuracy, large-measurement ...



A fiber Bragg grating (FBG) is a type of distributed Bragg reflector constructed in a short segment of optical fiber that reflects particular wavelengths of light and transmits all others.

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