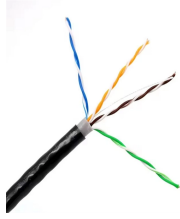


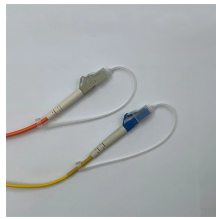
High Temperature Resistance of Nepalese Planar Optical Waveguides



High Temperature Resistance of Nepalese Planar Optical Waveguide



In this paper, we demonstrate higher extinction (75 dB) and broadband polarizers fabricated with ultralow-loss silica waveguides. We begin with a discussion of the polarizer design and operating ...



This study demonstrates an active temperature-controlled optical planar waveguide sensor with LMR (TC-LMR) for RI measurement. Different ...



This paper aims to develop a temperature-controlled lossy mode resonance (TC-LMR) sensor on an optical planar waveguide with an active temperature control function in which an ITO ...



Both the planar-mirror waveguide and the planar dielectric slab waveguide confine light only in one direction. It is straight forward to analyze the modes of the two-dimensional planar-mirror waveguide, ...



This study demonstrates an active temperature-controlled optical planar waveguide sensor with LMR (TC-LMR) for RI measurement. Different external voltages are used to drive the ITO ...



In this paper we have presented an exact analysis of the temperature dependence of optical waveguides with thermo-optic controlling regions, either as micro channels around a fiber ...



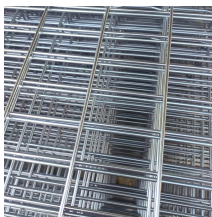
We review our work on polymer planar waveguide Bragg grating (PPBG) sensors and demonstrate their potential for high temperature applications. Our sensors are f



Based on subwavelength gratings, here, we show that it is possible to create broadband, multimode waveguides with very low propagation losses despite using a strongly absorbing material.



Figure 23-1 shows an elementary waveguide, with the index n_2 of the surface film greater than the index n_1 of the substrate. An optical wave, once trapped inside the medium with higher index, will ...



In the experiments detailed below, we are able to investigate the modal properties of step and graded index waveguides formed by thin film deposition and ion exchange processes respectively, and to ...



In this work, we describe a theoretical approach for combined thermal, mechanical and optical simulation and analysis of planar polymer waveguides. We consider a finite element approach ...



The book consists of ten chapters. In Chapter 1 fundamental wave theories of optical waveguides, which are necessary to understand the lightwave propagation phenomenon

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