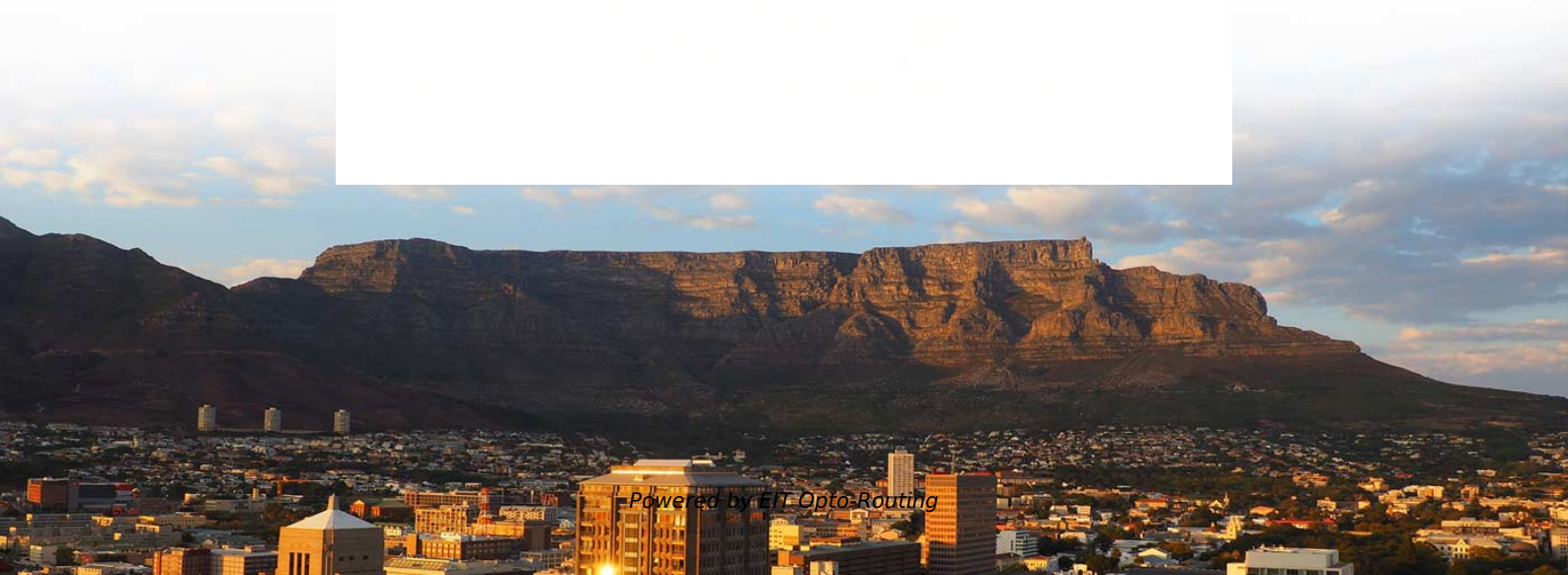
EIT Opto-Routing

High-Temperature Resistant Planar Optical Waveguides for Argentine Metropolitan Area Networks



(PDF) Progress in Planar Optical Waveguides

Progress in Planar Optical Waveguides January 2016 Springer Tracts in Modern Physics 266 DOI: 10.1007/978-3-662-48984-0 Authors:

Chapter 2. Planar optical waveguides

Abstract This chapter reviews planar optical waveguides, which are the key devices to construct integrated optical circuits and semiconductor lasers.

(PDF) Flexible Polymer Planar Optical Waveguides

We report about design, fabrication and properties of flexible polymer optical planar waveguides made of epoxy novolak resin as planar waveguides

SiO2 Nanoparticles-Acrylate Formulations for Core and Cladding in

A combination of acrylate formulations and SiO 2 nanoparticles is investigated with the aim to improve the optical properties of low-refractive index polymers that are used for the fabrication

PII: S0925-4005(00)00412-3

For a simple planar sensor substrate lithography may be avoided, but for a laterally confined or channel wave-guide, the process involves: a . Photolithography -- chan-nels are etched in an

(PDF) Planar Optical WaveGuides and Fibers

Planar optical waveguides such as films and strips or strip-derived structures are needed in these applications to form distributed components and to connect

(PDF) Progress in Planar Optical Waveguides

In this study, we propose a novel structure comprising a one-dimensional photonic crystal of ZnSe/Nb2O5/BK7 as a tunable wide bandstop

Polymeric optical waveguide devices exploiting special properties of

They have been demonstrated to have good performance, large fabrication tolerance, and high reliability, and they will be important building blocks for extending the application territory of

Planar Waveguides and other Confined Geometries

This book provides a comprehensive overview of the theoretical concepts and experimental applications of planar waveguides and other confined geometries,

Integrated Planar Waveguides for High Speed Data Communication

Integrated Planar Waveguides for High Speed Data Communication and Sensing in Space Applications Felix Betschon CEO vario-optics ag

Thermoforming of planar polymer optical waveguides for integrated

This work describes the process for fabrication of polymer optical waveguides for integrated optics in thermoformed packaging materials. The optical functionalization is provided

High temperature stable polymer planar waveguide Bragg

In this review, a survey of suitable optical polymer systems, their processing techniques, and the integrated optical waveguide components and circuits derived from these materials is

Planar Optical Waveguides , Springer Nature Link

Recent advances in opto-electronics and electro-optics have opened the infrared and visible part of the electromagnetic spectrum for communications and general data processing applications. Planar

Planar Lightguide Circuits: An Emerging Market for Refractive

The devices are based on planar optical waveguides, in which light is confined to substrate-surface channels and routed onto the chip. These channels are typically less than 10 microns across and are

Development of a Temperature-Controlled Optical Planar Waveguide

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 film is

Free-standing millimeter-range 3D waveguides for on-chip optical

The presented waveguides are suitable for on-chip out-of-plane light coupling as well as non-connected 3D crossings, needed for high density optical circuits.

Planar waveguide , Description, Example & Application

Planar waveguides are typically made from materials such as silica, silicon, polymers, or other semiconductors. These materials have a high refractive index, which allows them to confine

Development of planar diffractive waveguides in optical see-through

The diffractive waveguides can be divided into surface relief grating waveguides and volume hologram grating waveguides. In this review, the state of the art of planar diffractive

Planar Waveguide

Planar lightwave circuits using silica-based optical waveguides are fabricated on silicon or silica substrate by a combination of flame hydrolysis deposition (FHD) and reactive ion etching (RIE).

Introduction to the Special Issue on Ultralow Loss Planar Waveguides

The fifteen papers in this special issue focus on ultra low loss planar waveguides and the applications. Ultra-low loss optical planar waveguide technology is a critical research area driven by

An exact analysis of the temperature control of optical waveguides

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 core, or as cladding

Heat resistant and low-loss fluorinated polymer optical waveguides at

Multi-mode polymer optical waveguides using heat resistant and low-loss fluorinated polymers were demonstrated. We fabricated 125-cm-long optical waveguides and estimated the propagation loss at

Waveguides - optical fiber, fabrication, modes, nano

Waveguides are spatially inhomogeneous transparent structures for guiding light, often used for obtaining strong light concentration over substantial distances.

Optical Planar Waveguide Sensor with Integrated

Herein, we report an optical temperature sensor with a planar waveguide architecture integrating inkjet-printed luminescent light coupling-in and

Planar Waveguide Optical Sensors: From Theory to

This book concentrates on the design and development of integrated optic waveguide sensors using silicon based materials. The implementation of such

SiON high

The rapidly growing optical communication market requires photonic components with ever-increasing functionality and complexity that can be fabricated reliably at low cost. Of the various approaches

Planar Waveguides

PlanarWaveguidesOpticalsignaltransmissionviafiberglasswaveguidesrevolutionized telecommunication over long distances. The wavelength regimes around 1.3 um and 1.55 um are

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