EIT Opto-Routing

High-precision door-to-door transportation of planar optical waveguides

(PDF) Automatic Planar Optical Waveguide Devices

The alignment velocity, precision, and reliability of this algorithm are all greatly increased. Alignment coupling of planar optical waveguide chip and

Progress in planar optical waveguides

This book provides a comprehensive description of various slab waveguide structures ranged from graded-index waveguide to symmetrical metal-cladding waveguide. In this book, the transfer Matrix

Progress in Planar Optical Waveguides

A novel symmetrical metal-cladding waveguide structure is proposed and systematically investigated for several issues of interest, such as biochemical sensing, Goos-Hänchen shift and the slow light effect,

Alignment algorithms for planar optical waveguides

Request PDF , Alignment algorithms for planar optical waveguides , Planar optical waveguides are the key elements in a modern, high-speed optical network. An important problem

Planar Polymer Waveguides for Integrated Optical Packages

Motivation Photolithographic process allows the implementation of virtually any optical system High integration of optics and electronic can be reached Cost effective, reproducible Compatible with PCB

Inorganic-organic hybrid polymer optical planar waveguides for micro

All three new types of hybrid polymers have high thermal stability, excellent transparency, exquisite mechanical properties as well as high chemical and physical stability. This

(PDF) Progress in Planar Optical Waveguides

In this work, we introduce a simple yet accurate simulation modeling technique, based on the transfer-matrix method, to compute higher-order

Precision measurements for propagation properties

of high-definition

We recently demonstrated a new fabrication technique for forming low-loss capped polymer waveguides using contact photolithography.10 In this work, we present a simple, real-time, accurate, and

Planar Lightwave Circuits (PLCs)

Abstract Planar lightwave circuits (PLCs) provide various important devices for optical WDM, TDM systems, subscriber networks and etc. This paper reviews the recent progress and future prospects

Fundamentals and Design Guides for Optical Waveguides

FundamentalsandDesignGuidesforOpticalWaveguidesAbstractNext-generationhigh-end data processing systems such as Internet switches or servers approach aggregate bandwidth in excess of

Experimental demonstration of ultra-high precision

Experimentaldemonstrationofultra-highprecisionopticalfrequencytransfervia240-km-long telecommunications fiber- Optical repeater cascade

Ion exchange technology for optical waveguides

LEONI Fiber Optics has successfully imple-mented the ion exchange technology for the fabrication of planar integrated opti-cal waveguides. Starting with singlemode applications for telecom, the palette

Reconfigurable flat-top narrow bandpass filter in prism pair coupled

We have theoretically designed and simulated a filter structure made of prims pair coupled planar optical waveguide, with which flat top optical bandpass filter with nanometer to sub

Progress in Planar Optical Waveguides (Springer Tracts

Anovelsymmetricalmetal-claddingwaveguidestructureisproposedandsystematically investigated for several issues of interest, such as biochemical

High precision Fast Line Detection of alignment and coupling for

The precision, velocity and reliability are evaluated in the line detection of planar optical waveguide device edge. This paper has given a new line detection algorithm on the basis of the

High-Precision Propagation-Loss Measurement of Single-Mode Optical

We demonstrate the fabrication of single-mode optical waveguides on lithium niobate on an insulator (LNOI) by optical patterning combined with chemomechanical polishing. The fabricated

Thermoforming of Planar Polymer Optical Waveguides

This work describes the processing of additive manufactured and planar integrated polymer optical waveguides for use in smart packaging products.

Production of an optical waveguide in planar glass

substrate fabricated

While Bragg gratings are routinely patterned within optical fibers using the point-by-point or line-by-line technique, the objective of our work is to produce Bragg grating sensors within planar glass

Holographic optics in planar optical systems for next generation small

We focus specifically our attention on the optical combiner element, a crucial element in Optical See-Through (OST) HMDs that combines the see-through scene with a world locked digital image. As for

Holographic optics in planar optical systems for next generation small

Holographic optics in planar optical systems for next generation small form factor mixed

reality headsets Bernard C. Kress* and Maria Pace

Development of planar diffractive waveguides in optical see-through

In this review, the state of the art of planar diffractive waveguides is described, including the physical principle, optical configuration, performance parameters, and manufacturing process.

Progress in Planar Optical Waveguides

Progress in Planar Optical Waveguides is written by Xianping Wang; Cheng Yin; Zhuangqi Cao and published by Springer. The Digital and eTextbook ISBNs for Progress in Planar Optical Waveguides

Combined thermomechanical and optical simulations of planar-optical

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 for

Additive 3D printed optical waveguide for augmented reality

The mass production of augmented reality (AR) waveguides has been challenging due to the intricate nature of the fabrication technique and the high

Past, present, and future of hybrid plasmonic

This article addresses the past, present, and future status of hybrid plasmonic

waveguides (HPWs). It presents a comprehensive review of HPW

High-Precision, Self-Aligned, Optical Fiber Connectivity Solution for

A fully passive, optical fiber connectivity solution for polymer waveguides embedded in electro-optical printed circuit boards (EOCB) is described and its preliminary results for single-mode

Planar Waveguides: The Future of Photonics

How Planar Waveguides Enable High-Speed Data Transfer Planar waveguides play a crucial role in enabling high-speed data transfer in optical interconnects. By confining light to a

Production of an optical waveguide in planar glass substrate fabricated

These achievements have been obtained with the so-called Femtoprint machine, a commercial device created to engineer glass materials. We report the parameters that were used to produce cylindrical

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