

Optical Waveguide Coupler

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Optical Waveguide Coupler

An optical waveguide system consisting of an unclad fiber core suspended at a constant distance parallel to the surface of an infinite extended dielectric slab is investigated. Fiber and slab are both ...

Investigation of coupling between a fiber and an infinite slab

A monolithic lab-on-a-chip fabricated by femtosecond laser micromachining capable of label-free biosensing is reported. The device is entirely made of fused silica, and consists of a microdisk ...

Femtosecond laser micromachining of an optofluidics-based monolithic whispering-gallery mode resonator coupled to a suspended waveguide

Tailor Insight, the fintech market research organization, recently released a research report "WIMI Hologram Cloud ...

WIMI Hologram Cloud Announces Its New Patented Product Holographic AR Head-mounted Display, Which Uses Sensors to Achieve Various Functions

Nulling interferometry is a technique combining lights from different telescopes or apertures to observe weak sources nearby bright ones. The authors report the first nulling interferometer ...

Scalable photonic-based nulling interferometry with the dispersed multi-baseline GLINT instrument

II-VI semiconductors, MOS capacitors, cadmium compounds, diffraction gratings, electro-optical modulation, electroabsorption, image resolution, indium compounds, light ...

Yue Dong

A commercially available mid-IR supercontinuum source has a broadband output from 1.3 to 4.5 μm , providing orders-of-magnitude higher brightness than thermal IR sources.

Mid-IR supercontinuum laser covers key spectral bands for spectroscopy

Indeed, the largest photonic switch ever demonstrated uses this approach. Commercialization Until now, those MEMS photonic switches have been fabricated using nonstandard and complex processes in ...

Photonic MEMS switches going commercial

The probes use sets of nanophotonic grating couplers, the periodic etched structures already used to diffract coupled light in certain directions for applications including silicon photonics, to ...

Implantable probes allow light-sheet microscopy within living brain

Passive devices which have electrical dimensions comparable with the working wavelength, and which operate at frequencies up to but not including optical frequencies ... dielectric waveguides. Devices ...

CPC Definition - Subclass H01P

See "directional coupler" in this glossary ... It confines light similar to an optical fiber. Used in waveguide arrays. Also known as lapping film, it is a paper with a fine grit used to remove ...

fiber optics glossary

These companies focus on optical waveguide integration implementing ... minimizing insertion loss and maximizing fiber coupling to the chip (Fig. 2). Compared with conventional silicon ...

Latest from Communications

Nonlinear effects play an important role in modern photonics. By light-matter interaction, it becomes possible to selectively influence optical properties of materials with light. These changes then ...

Nonlinear effects

Our activities focus on three core constituents of chip-scale quantum optics: Design of efficient interfaces between optical waveguides and single-photon sources. Development of nanophotonic devices ...

Integrated quantum technology

[KREOSAN]'s build is obnoxiously obvious — three magnetrons mounted on a tin can “resonator” with a foil-covered waveguide at the business end. The magnetrons are tickled by a stun-gun ...

Trio Of Magnetrons Power A Microwave Rifle

Here, the authors propose and characterize, both experimentally and through multiphysics modeling, a grounded coplanar waveguide compliant with the ... CA15211 – Atmospheric Electricity Network: ...

Experimental and numerical characterization of a grounded coplanar waveguide for nanoelectroporation applied to liposomes

Using photonic lattices consisting of laser-written waveguides that are continuous (“gain”) and sectioned (“loss”) and coupled to an interface defect, they demonstrate the nonlinear control of ...

Nonlinear tuning of PT symmetry and non-Hermitian topological states

However, the diffraction limit of light is a fundamental barrier to interfacing micrometer-scale waveguides to nanoscale electronic ... This can lead to large coupling efficiencies and interfaces ...

Transparent Sub-diffraction Photonics

This task is usually performed by electronic switches, while the data itself is transferred using light confined in optical waveguides. For this reason, conversion from an optical to an electronic ...

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