

In conclusion, we have extended the T-L technique of planar waveguides and presented an exact and efficient algorithm for designing optical planar couplers of arbitrary modal electric field ...

We introduce the key optical components which may facilitate added functional value including the optical splitter and combiner, and examples of optical waveguide-based components such as ...

Optical coupling between a fibre-optic waveguide and a planar optic waveguide is achieved by providing techniques for phase matching intercoupled evanescent fields of light wave energy...

Multilayer Planar Waveguide Couplers While butt coupling can be used to couple two planar waveguides, as mentioned in Chapter 7, the more common method is to bring the guides into close ...

In this paper, we provide an overview and comparison of devices used for optical waveguide-to-waveguide coupling including inter-chip edge couplers, grating couplers, free form...

We propose the use of a grating coupler to butt-couple light from a single-mode fiber, perpendicular to the surface, into planar waveguides. This coupling scheme allows dense integration and wafer-scale ...

Abstract--We present how a conventional Si waveguide grating coupler can be integrated with a polymerizable liquid crystal polarization grating to provide vertical coupling between optical fibers and ...

Planar optical waveguides in form of films on substrates as well as strips on and in substrates, and various strip derived structures serve in integrated optics to confine optical waves in components and ...

In conclusion, we have demonstrated a novel type of integrated optical sensor concept and a method to couple light into a planar waveguide without using prisms or gratings.



Planar Optical Waveguide Coupler

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