

Optical Waveguide Coupler

planar optical waveguide coupler transformers for high ... - planar optical waveguide coupler transformers for high-power solar energy collection and transmission nobuhiko p. kobayashi baskin school of engineering, university of california santa cruz, santa cruz, california, u.s.a.

fundamentals of optical waveguide theory - describe the prism coupler. explain how an external laser light can be coupled into a thin layer. outline 1 revision: waves in optics 2 waveguide modes planar slab waveguide optical fiber 3 general properties of modes 4 coupled-mode theory ... fundamentals of optical waveguide theory ...

fiber to waveguide couplers for silicon photonics - between the fiber and the waveguide, known as an optical coupler, which receives light from the fiber and efficiently transmits it to the waveguide. different variations of this component exist [8]. our particular design is composed of a graded index stack of silicon oxynitride layers and a lateral, linear taper with a planar lens. the

chapter 2 optical couplers and splitters - optical couplers, the fiber optic cable or type and structure of the waveguide, the coupler type, signal wavelength, number of inputs and outputs, as well as insertion loss, splitting ratio, and polarization dependent loss (p dl) have to be considered. figure 2.2: y-shaped waveguide coupler

a robust method for characterization of optical waveguides ... - formed by a directional coupler and a multi-mode interference coupler [7] or two y-branches [8] have been proposed. however, existing analysis techniques for these structures can only extract the coupling coefficient of the coupler [7] or still require multiple test structures to extract the waveguide loss [8].

optical fiber to waveguide coupling technique - apps.dtic - emerging optical waveguide devices appear attractive as terminal elements in optical fiber transmission, sensing, and signal processing applications. such use naturally depends upon the permanent coupling of single-mode optical fibers to channel thin-film waveguides, which is the subject of this paper.

lectures on theory of microwave and optical waveguides - 2 theory of microwave and optical waveguides a closed waveguide, the electromagnetic energy is completely trapped within metallic walls. the only way to gain access to the energy is to tap holes in the waveguide wall. hence, it transmits signals with very good shielding and very little interference from other signals.

grating couplers for coupling between optical fibers and ... - waveguide is the same because the coupling between the two modes (single-mode fiber and waveguide) is considered. the simulation model we have used is shown in fig. 2. we modelled the waveguide grating coupler using the eigenmode expansion method with perfectly matched layers (pml) boundary conditions. 11) this method yields the

optical trimer: a theoretical physics approach to ... - optical trimer: a theoretical physics approach to waveguide couplers 2 1. introduction the planar three-waveguide coupler [1] has proven a reliable platform for optical devices. it has been shown to provide improving interferometers [2], tunable sampling and filtering [3], modulation [4] and power coupling [5] in voltage driven systems, as well as

optical directional coupler based on si-wire waveguides - optical directional coupler based on si-wire waveguides ... propagation characteristics of ultrahigh-frequency optical waveguide on

silicon-on-insulator substrate, jpn. j. appl. phys., vol. 40, pp. 1383-1385, 2001. [5] k. yamada, silicon-wire based ultra small lattice filters with wide free spectral ranges,

inter-chip optical waveguide coupling analysis - inter-chip optical waveguide coupling analysis by chun-yu liu a thesis submitted to the faculty of the university of delaware in partial fulfillment of the requirements for the degree of master of engineering in electrical

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