

There are mainly two categories of fiber-to-chip optical coupling: off-plane coupling and in-plane coupling. Grating couplers work under the former category, while edge couplers function as ...

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It consists of three waveguide ports and one fiber port. The periodicity in the direction of Port 1 and Port 2 is different from Port 3 to allow coupling of downstream and upstream wavelengths,...

Grating couplers can be fabricated using various materials, such as silicon-on-insulator (SOI) materials, lithium niobate, and various polymers.

Abstract The unique optical properties of phase change materials (PCMs) can be exploited to develop efficient reconfigurable photonic devices. Here, we design, model, and compare the performance of ...

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The goal of this chapter is to examine in detail the practical side of integrated optical couplers. Thus, for example, these couplers are fabricated of lithium niobate via surface diffusion ...

The optical couplers can be used to create more complicated optical devices, such as M &#215; N optical stars, directional optical switches, different optical filters, and multiplexers.

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The objective of this paper is to provide a review of the theory, techniques, and applications of optical

couplers.

Here, we demonstrate a compact, zero-static power, nonvolatile field-programmable coupler array (nv-FPCA), which combines key PIC components (waveguides, couplers, and ...

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