

## Optical Coupler Transformation



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To mitigate the complexity arising from the mismatch in mode shapes, we propose a straightforward method based on transformation optics. This method aims to standardize the cross ...



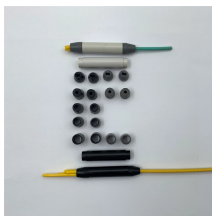
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In this paper, we provide an overview and comparison of devices used for optical waveguide-to-waveguide coupling including inter-chip edge couplers, grating couplers, free form ...



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



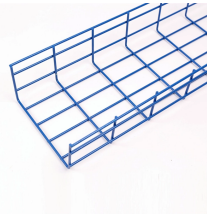
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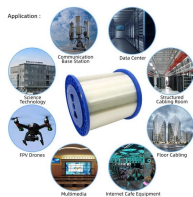
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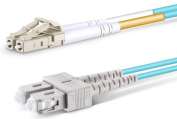
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In this chapter, we will discuss passive optical couplers. The discussion will include a consideration of both conventional and adiabatic, or spatially varying, couplers, as well as their ...



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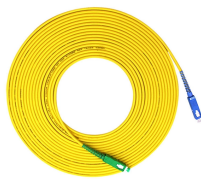
The coupling efficiency of the edge coupler affects the effective integration of optical circuits. In this study, three-dimensional (3D) edge couplers with high efficiency and tolerance are...



An integrated silicon photonics coupler for fiber to waveguide conversion was designed employing a transformation optics approach. The coupler exhibits a factor of 2 improvement over the benchmark ...



In this paper, we propose a three-dimensional coordinate transformation scheme for the design of waveguide couplers using impedance-tunable transformation optics.



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A widely used approach for optical couplers fabrication is based on the coupling between optical fibers. The operation principle of the light coupler employed on the compensation technique is shown in Fig. ...



To validate our approach, we conducted a comprehensive 3D numerical simulation confirming that the UIM coupler consistently achieves over 99.9 % transmission, irrespective of various coupling ...



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Efficient coupling between the Si<sub>3</sub>N<sub>4</sub> and SOI waveguides is essential. We propose a coupler based on the Luneburg lens flattened by quasi-conformal transformation optic



An integrated silicon photonics coupler for fiber to waveguide conversion was designed employing a transformation optics approach. Quasi-conformal mapping was used to obtain ...

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