

Power coupling is a fundamental operation in all electronic circuits. It involves the transfer of power between different. varying frequencies. The objective of this paper is to provide a review...

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. ...

In this paper, we review the current research progresses made on grating couplers, starting from their fundamental theories and concepts. Then, we ...

In this paper, we present a method to solve the problem of designing single-mode, linear nanophotonic devices. We then demonstrate this method by designing coupling structures between various ...

This demonstration suggests that our model and design procedure indeed generate highly efficient grating couplers, and can be applicable for achieving efficient coupling to complicated target modes.

While they share the common objective of light coupling, they differ in terms of their underlying principles, design considerations, and performance characteristics .

Grating couplers are simply components of a photonic circuit that use diffraction to couple light into or out of a waveguide. By utilizing geometry and diffraction, fiber optic cables can be...

We present a simple and practical strategy that allows to design high-efficiency grating couplers.

The most common operating principle of a directional fiber coupler is evanescent wave coupling in a configuration where two fiber cores come close to each other.

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 ...

In this paper, we review the current research progresses made on grating couplers, starting from their fundamental theories and concepts. Then, we conclude various methods to improve their ...

Designing a fiber coupler with low insertion loss, high coupling efficiency, adjustable splitting ratio and special coupling has always been the focus of researchers in the field of optics and ...



Structural Design Principles of Optical Couplers

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