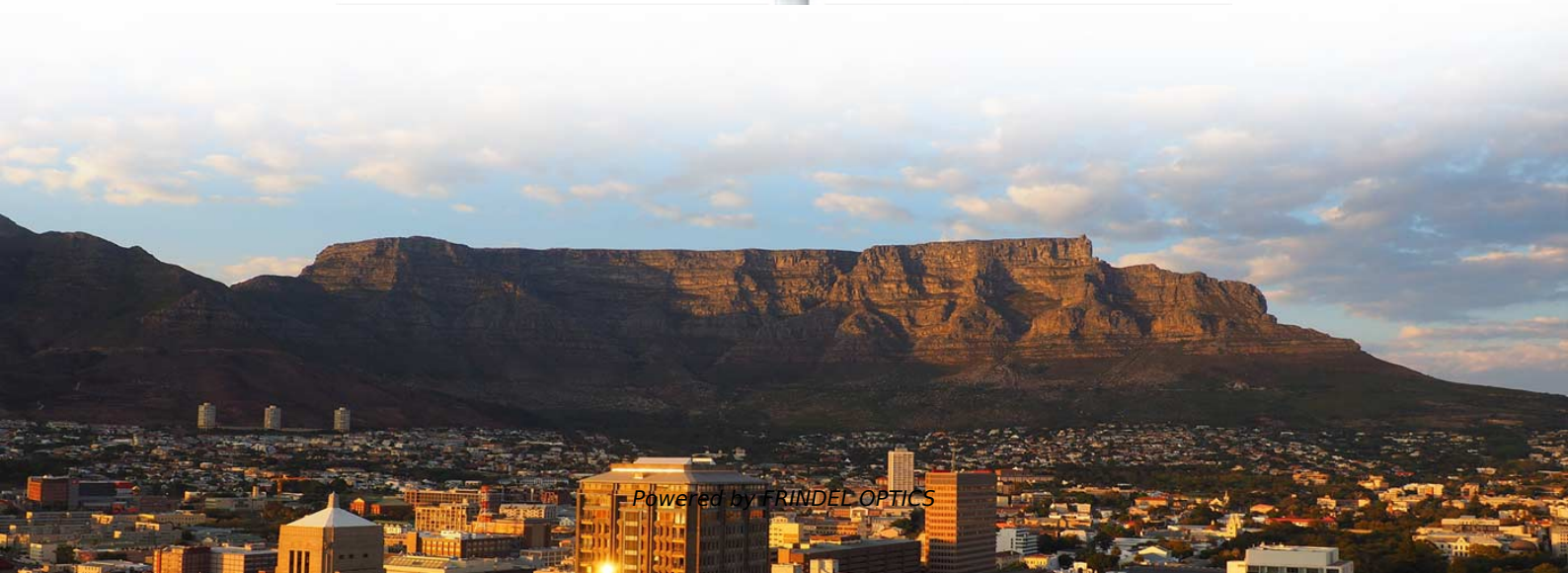
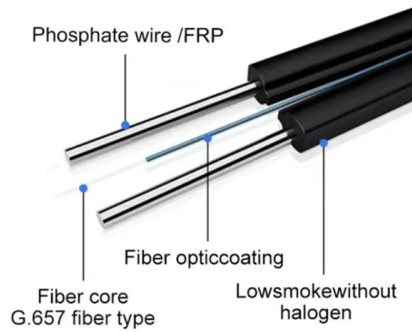


Intelligent Optical Directional Coupler





Intelligent Optical Directional Coupler



Robust Characterization of Integrated Photonics Directional Couplers

Abstract Directional couplers are essential components in integrated photonics. Given their widespread use, accurate characterization of directional couplers is crucial for ensuring optimal

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Designing Smarter Directional Couplers with Parametric

In this tutorial, we'll uncover the benefits of creating a parametric model for directional couplers, leveraging the advanced layout and model-building

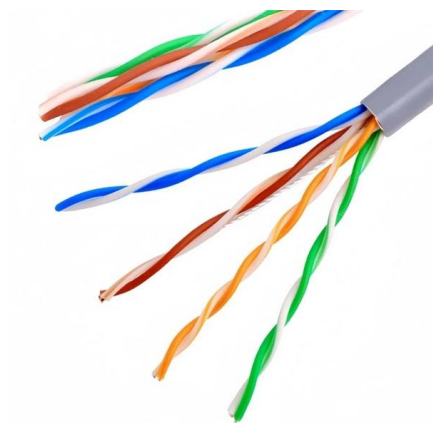
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Optical Imaginary Directional Couplers

We investigate the light propagation in a double-waveguide coupler with imaginary-valued coupling coefficient. The imaginary coupling is realized by incorporating an additional

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Chapter 11

Such a directional coupler that allows the transfer of light from one channel to another is one of the building blocks of optical integrated circuits. We shall describe below the first operation of such a



Directional Couplers for Integrated Optics

In the field of integrated optics directional couplers will play an important role. These couplers are not only important for providing just a direction dependent means of coupling but they are also important

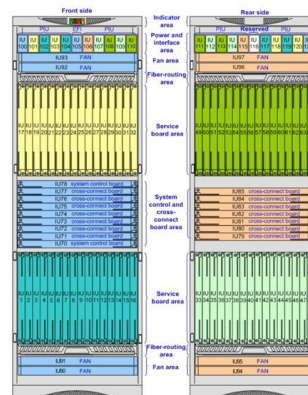
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Novel optical directional coupler based on surface plasmon polaritons

In this paper, a novel optical directional coupler based on SPPs is proposed, and the finite difference time domain (FDTD) method is used to simulate and analyze its new optical properties.

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Directional Coupler

Directional couplers are fundamental components for optical modulators and switches. The first SiGe/Si directional coupler was reported by Mayer et al. (1991). The coupler consisted of two adjacent Ge 0.4

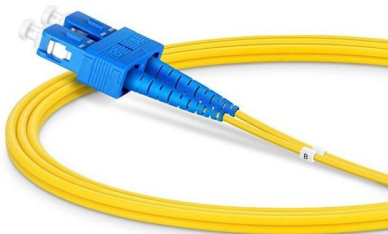
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Optical Coupler

An optical directional coupler is one of the most basic inline fiber-optic components, often used to split and combine optical signals, or tap-off a small portion of the optical power for monitoring.

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Multimode waveguide based directional coupler

The Silicon-on-Insulator (SOI) based platform overcomes limitations of the previous copper and fiber based technologies. Due to its high index difference, SOI waveguide (WG) and directional

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Directional Couplers , Springer Nature Link

Directional couplers consist of closely neighboring waveguides, between which energy exchange can take place. Directional couplers can be applied to power splitting, to modulation or to the switching of

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Tunable Directional Couplers for High Contrast Optical Meshes

We describe the operation, design, and fabrication of MEMS-tunable silicon-photonics directional couplers, with potential for smaller footprint, less sensitivity to fabrication errors, and

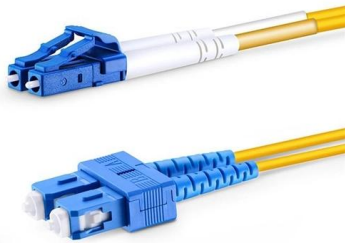
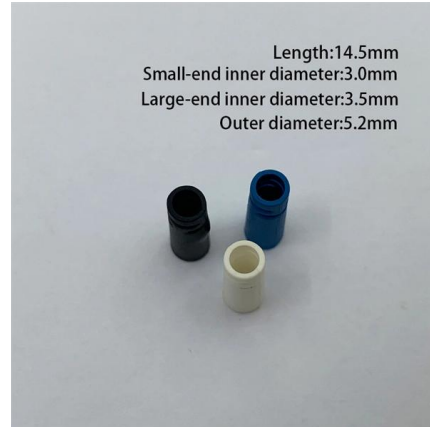
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Rational design of an integrated directional coupler for

We show analytically that two coupled planar waveguides exhibit a maximum in the coupling strength, which ensures both wideband transmission and minimal device

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Switching behavior engineerable, electro-optic directional couplers in

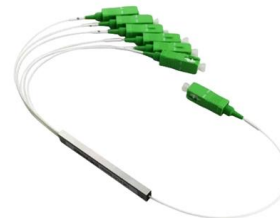
Electro-optic (EO) mechanisms have been used to achieve a fast and active (power) switching in directional couplers as first demonstrated in lithium niobate (LiNbO₃) waveguides by

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Robust Characterization of Integrated Photonics Directional Couplers

To address these challenges, we propose a novel direct measurement technique that offers greater robustness to variations in optical interfaces, while by-passing extinction ratio

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Directional Couplers

This is a continuation from the previous tutorial - grating waveguide couplers. Directional couplers are multiple-waveguide couplers used for codirectional

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Implementation of all-optical 3-dB and 10-dB directional coupler for

The design of an all-optical 3-dB and 10-dB directional coupler that functions as an optical switch if applied a control signal by fusing two photonic crystal waveguides with a coupling

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Designing Smarter Directional Couplers with Parametric

A directional coupler serves as an essential passive component in integrated photonic systems, allowing precise splitting or combining of optical signals

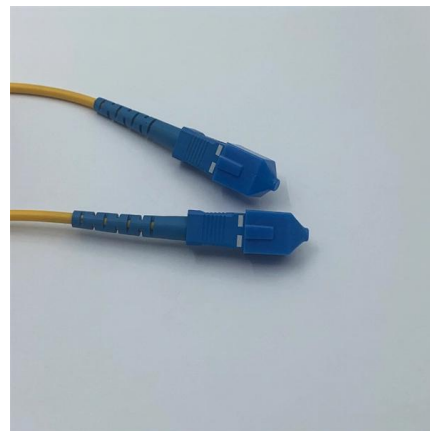
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Chapter 5 The Optical Directional Coupler

Abstract This chapter presents a detailed discussion of optical directional couplers, which is one of the important components of integrated quantum photonic circuits. Coupled mode theory is used to

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Optical Couplers , Springer Nature Link

Optical couplers are one of the most important classes of integrated optical components. These devices are used in directional routing of a light signal from one waveguide to another or in

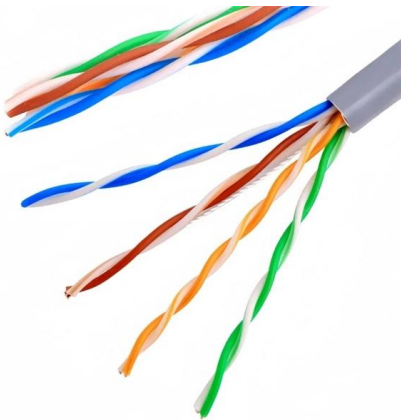
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The Optical Directional Coupler , Springer Nature Link

This chapter presents a detailed discussion of optical directional couplers, which is one of the important components of integrated quantum photonic circuits. Coupled mode theory is used to analyze two

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Compact Integrated Optical Directional Coupler with

Compact integrated optical directional couplers with symmetrically- and asymmetrically etched S-bend waveguides on SOI platform have been designed,

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Design of All-Optical Directional Coupler Using Plasmonic

In this paper, we have proposed, analyzed, and verified the performance of an optimized plasmonic 10-dB directional coupler and a 3-dB directional coupler in 2-D plasmonic waveguides

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The optical directional coupler, analogous to the microwave element of the same name, consists of parallel channel optical waveguides sufficiently closely spaced that energy is transferred from one to

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Directional Coupler

A directional coupler is defined as a device that couples only to waves traveling in a specific direction, allowing for the measurement of forward and reverse power levels in transmission

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Simple Machine Learning Using Multi-Port Optical Directional

Optical neural networks are emerging as structures with potential for artificial intelligence. We describe a multi-port directional coupler architecture and dem.

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Highly efficient and selective integrated directional couplers for

This paper focuses on the design, optimization, and characterizations of a low-loss, compact directional coupler-based duplexer.

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