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Abstract: We propose and experimentally demonstrate the ultra-compact mode (de)multiplexers and polarization beam splitter (PBS) based on tapered bent asymmetric directional ...

Optical components that create two beams by splitting incident light are beamsplitters. Read more about the different types of beamsplitters at Edmund Optics.

The broadband polarization beam splitter/combiner comprises a tapered waveguide directional coupler, a beam combination end (1), a curved waveguide (5), a transverse electric (TE) mode end...

Abstract: We design and experimentally demonstrate a polarizing beam splitter (PBS) on a silicon-on-insulator (SOI) platform based on an asymmetric directional coupler.

In this paper, an on-chip silicon polarization beam splitter using a particle-swarm-optimized counter-tapered directional coupler is proposed, designed, and fabricated.

To further achieve terahertz polarization beam splitting that balances performance, bandwidth, and device compactness, in this paper, we proposed a terahertz polarization beam ...

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The proposed structure consists of a triple-tapered DC, a tapered waveguide at cross port, and a triple-bent DC at through port, which gives a high degree of freedom for optimization.

In this work, we present a novel PSR based on a bent and tapered ADC, making it compact and insensitive to fabrication errors. The performance of the PSR is broadband because ...

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