

Insulation Loss of Non-Uniform Beam Splitter

We present a comprehensive study of the impact of non-uniform, i.e. path-dependent, photonic losses on the computational complexity of linear-optical processes.

Deposition processes, though well controlled, are not perfect and films are deposited of non-uniform thicknesses. As a result reflectance and transmittance measurements can vary across the surface as ...

Based on the GR-1209 standard, the maximum allowable insertion loss for an optical splitter used in a PON system can be determined by using the calculations ...

These beamsplitters can separate components of a laser beam based on wavelength, or to truly combine different wavelengths (or bands) with minimal loss, and are thus suitable for high power ...

Abstract In this paper, we theoretically propose and demonstrate a non-unitary beam-splitter (BS) by introducing coupling losses at the interface of the plasmonic waveguide and multimode dielectric ...

beam splitters. In this article, we analyze the most general two-port beam splitter which can be lossy, asymmetric and unbalanced, and find the non-trivial constraints on the matrix elements. We derive ...

analyzing the behavior of a beam-splitter that culminated in Eq. (17). While detector arrays capable of localizing individual photons in space and time are commercially available nowadays, it is ...

Beam splitters are devices for splitting a laser beam into two or more beams. There are different types, including polarizing and non-polarizing versions.

In this paper, low-loss Y-branch splitters up to 128 splitting ratio are designed, simulated, and optimized by using 2D beam propagation method in OptiBPM tool by Optiwave.

Both 1XN and 2XN splitters can be constructed in this fashion with as many as eight or more outputs, with both low return losses and low insertion losses. This design is extremely flexible, allowing one to ...

In this article, we analyze the most general two-port beam splitter which can be lossy, asymmetric and unbalanced, and find the non-trivial constraints on the matrix elements.

In this paper, the design and optimization of a non-uniform 1 × 5 PLC splitter are carried out, and the device performance sensitivity analysis towards various structure dimensions was then ...

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