

Icelandic planar optical waveguide anti-tracking

A planar waveguide is defined as a waveguide formed on a flat substrate, typically made by depositing films of dielectric materials and defining a core through methods such as lithography and etching, ...

This chapter discusses in detail the concept of modes in planar and channel dielectric optical waveguides which are the fundamental building blocks of integrated quantum photonic devices.

Planar (slab) waveguides are the basis of waveguides used in integrated optoelectronics. The same mathematical ideas can be applied (with minor modifications) to circular waveguides.

We presented a numerical approach that allows one to investigate and comprehensively characterize both guided and leaky modes of multilayered planar optical waveguides.

In this study, we propose a novel structure comprising a one-dimensional photonic crystal of ZnSe/Nb₂O₅/BK7 as a tunable wide bandstop filter to cover the visible range of 500-800 nm. The...

We present a detailed account of processing issues related to fabrication of optical waveguide sensors intended for evanescent-wave sensing in aqueous solutions or surface-bound fluorescence excitation ...

Both the planar-mirror waveguide and the planar dielectric slab waveguide confine light only in one direction. It is straight forward to analyze the modes of the two-dimensional planar-mirror waveguide, ...

It is difficult to be analyzed by Marcatili method! Divide the waveguide into several sections (horizontally or vertically). Consider either Y component or X component only. Calculate the propagation constant ...

Learn about different types of waveguides, such as planar, fiber optic, and strip waveguides, and their applications in optical communications, sensors, and photonic integrated circuits.

At the heart of this evolution are planar waveguides, structures that guide light along a specific path on a flat substrate. In this article, we will explore the pivotal role of planar waveguides in ...

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