

# **Andorran planar optical waveguide anti-tracking**



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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.



The purpose of this paper is to develop an algorithm for controlling the number of modes of planar waveguides of an arbitrary refractive index profile, which combines simplicity and generality.



Planar waveguides, also called slab waveguides, are waveguides with a planar geometry, which guide light only in one dimension. They are often fabricated in the form of a thin transparent film with ...



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, ...



In this chapter, the optical fiber sensors based on antiresonant reflecting optical waveguide have been introduced, including the single layer, double layers, double resonators, and ...



In this example, we use MODE to study a multilayer planar waveguide that takes advantage of the Anti-Resonant Reflecting Optical Waveguide (ARROW) described in F. Prieto et. al. The goal is to plot ...



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



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 ...



A search-and-track algorithm is proposed for controlling the number of guided modes of planar optical waveguides with arbitrary refractive index profiles. The algorithm starts with an initial guess point in ...



Using total internal reflection, light can be trapped and guided in a dielectric waveguide (Figure c). The red rays bounce off both the top and bottom surface of the high index medium. They're guided even if ...

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