

A certain symmetrical planar optical waveguide

It discusses the conditions for guided and radiation modes, the significance of refractive index profiles, and the implications of mode symmetry in waveguide behavior. Additionally, it covers the ...

Depending on the index profile and geometry one distinguishes between different waveguide types. Figure 2.83 (a) is a planar slab waveguide, which guides light only in one direction.

These are waveguides that are sandwiches with a specified thickness but are infinite in extent in the other directions.

Abstract: We present a novel structure of planar waveguide for Yb:YAG laser amplifiers as symmetrical corner-pumped planar waveguide, allowing large absorption length. We optimize the ...

Modes are fields that maintain the same transverse distribution and polarization at all locations along the waveguide axis. A guided wave consists of the superposition of two plane waves in the y-z plane at ...

A planar waveguide, also known as a slab waveguide, is a structure with a planar geometry that guides light in only one dimension. It is typically a thin, transparent layer with a higher refractive index than ...

The planar waveguide with the Fermi refractive index distribution is prepared and the symmetrical sensing structures are arranged longitudinally alongside the direction of light ...

We introduce a planar waveguide of constant width with non-Hermitian PT -symmetric Robin boundary conditions. We study the spectrum of this system in the regime when the boundary coupling function ...

Compared with the asymmetric waveguide example in the step-index planar waveguides tutorial, two additional modes, TE₂ and TM₂, are supported by this ...

However, planar layer-type dielectric and metal-dielectric waveguides (like DL and PSDL) are infinite in the cross section so that for them these results cannot be applied and the ...

The book consists of ten chapters. In Chapter 1 fundamental wave theories of optical waveguides, which are necessary to understand the lightwave propagation phenomenon

Several examples of guided modes in symmetrical waveguides are shown. The document discusses experimental observation of waveguide modes and the use ...



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