

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 ...

To meet these needs, planar waveguides--an applied form of optical waveguide technology--have become increasingly important in AR devices in recent years. The use of high-refractive-index ...

Planar waveguides, also known as slab waveguides, are a fundamental component in the field of photonics. These structures are essential for guiding light in a controlled manner, and they have a ...

In integrated optical sensors, planar waveguides are used as input devices. These waveguides are optical structures that confine the optical radiation in the direction of propagation. The structure of ...

Planar waveguides play a crucial role in enabling high-speed data transfer in optical interconnects. By confining light to a specific path on a chip or board, planar waveguides allow for the ...

This book provides a comprehensive overview of the theoretical concepts and experimental applications of planar waveguides and other confined geometries, ...

The fundamental element in a photonic integrated circuit is the optical planar waveguide, also known as planar "dielectric" waveguide, which is a structure that is used to confine and guide light in integrated ...

Two invited papers cover important history and developments of low loss silicon nitride waveguides, the Photonic Damascene process and the TriPleX process.

This book provides a comprehensive overview of the theoretical concepts and experimental applications of planar waveguides and other confined geometries, such as optical fibres.

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The cylindrical optical fiber and the planar IRE function as waveguides, a general term for structures that transport electromagnetic radiation via repeated TIR.

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