Comparison of Low Loss and Advantages Disadvantages of Planar Optical Waveguides

It discusses stripline, microstrip line, slotline, coplanar waveguide (CPW), and coplanar strip line (CPS). Each type of transmission line offers certain advantages and disadvantages with respect to factors ...

This article compares various planar transmission lines, including microstrip line, stripline, suspended stripline, slotline, coplanar waveguide (CPW), and finline.

A brief comparison between the benefits and required improvements on each kind of biosensor is discussed at the end of each section. Finally, ...

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The article presents the development prospects of planar optical waveguides for high-speed data transmission systems optoelectronic buses by polymer materials. The advantages and ...

We demonstrate for the first time, a uniform low temperature (<250 °C) process for fabricating both high-confinement thick and low-confinement thin ultra-low loss Silicon nitride...

Due to reduced impurity absorption losses, the bonded thermal oxide approach has lower total propagation loss than the BPSG and PECVD approaches. The bonded thermal oxide approach also ...

Discover the fundamentals and advancements in planar waveguide technology, a crucial component in modern optics and photonics.

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

A brief comparison between the benefits and required improvements on each kind of biosensor is discussed at the end of each section. Finally, prospects in the field of LOC biosensors ...

Abstract: The fifteen papers in this special issue focus on ultra low loss planar waveguides and the applications.

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