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Fundamentals of Waveguides gives a complete theoretical basis of optical fibers and planar lightwave circuits, while being the first book to deal with the principles and applications of Arrayed Waveguide Grating multiplexers (AWGs) and Planar Lightwave Circuits (PLCs). Fundamentals also provides the reader with...

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Optical waveguide lightmode spectroscopy (OWLS) consists in mounting a glass slide coated with a high refractive index film (about 100 nm thick) in the bottom of a flow cell from which adsorption or molecular recognition events with the surface will take place. The flow cell is itself mounted on a rotating goniometer.

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Optical waveguides are important to amplify light efficiently by confining light to the active layer. This chapter explains propagation modes by both geometrical optics and wave optics. In geometrical optics, Snell's law is used to derive conditions to obtain radiation modes and guided modes.

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This chapter will review fundamentals and design guides of optical waveguides, including state-of-the-art and challenges, fundamental theory and design methodology, fabrication techniques, as well as materials selection for different level waveguide components and integration structures.

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