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Optical and semiconductor devices are enormously important to today's information society, making possible the gathering, storage, display, processing and transmission of data. The aim of the Group's research is to develop new technologies that enable advances in materials, processes and device physics to be made.

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In this topical review, we will concentrate instead on recent developments related to the acousto-optical modulation of 3D semiconductor rectangular WGs. Photonic crystal WGs are a promising alternative to 3D rectangular WGs, since the possibility of generating slow light allows for sizable acousto-optical modulation in very short devices. However, this exciting possibility has remained so far relatively unexploited for acousto-optical modulators.

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What Is An Optical Semiconductor Whats Kyoto Semiconductor optical semiconductor devices are divided into two major groups luminescent devices light emitting diodes and laser diodes and light receiving devices solar cells and photo detectors the wavelengths of the light depend on the optical semiconductor materials used

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Nearly all semiconductor lasers now use extremely thin layers of light emitting materials (quantum well lasers). Increasingly smaller nanostructures are used in the form of quantum dots. The impact of the semiconductor laser is surprising in the light of the complexity of the physical processes that determine the operation of every device.

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