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Silicon Photonics: An Introduction: Reed, Graham T

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Silicon photonics is the study and application of photonic systems which use silicon as an optical medium. The silicon is

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usually patterned with sub-micrometre precision, into microphotonic components. These operate in the infrared, most commonly at the 1.55 micrometre wavelength used by most fiber optic telecommunication systems.

Silicon photonics -
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Abstract Silicon photonics is a vibrant technology area in which photonic integrated circuits and components are made of silicon. The main driving force behind its development is the prospect of low-cost manufacture. This is possible due to its compatibility with CMOS

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processing techniques, which lead to high volumes and high yield.

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From design and simulation through to testing and fabrication, this hands-on introduction to silicon photonics engineering equips students with everything they need to begin creating foundry-ready designs. In-depth discussion of real-world issues and fabrication challenges ensures that students are fully equipped for careers in industry.

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In most AWGs demonstrated in silicon, the geometry of the aperture at the input (object plane) and output (image plane) is identical: this results in a maximal overlap when the shifted image is perfectly aligned with one of the output apertures (i.e. at a given wavelength).

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