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Silicon Photonics Silicon Photonics can be defined as the utilization of silicon-based materials for the generation, guide, control and detection of light to communicate over distances. Optical technology suffered from a reputation as an expensive solution, based on high cost of hardware

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Silicon Photonics explains the concepts of the technology, taking the reader through the introductory principles, on to more complex building blocks of the optical circuit. Starting with the basics of waveguides and the properties peculiar to silicon, the book also features: Key design issues in optical circuits. Experimental methods.

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Silicon Photonics is an essential tool for photonics engineers and young professionals working in the optical network, optical communications and semiconductor industries. This book is also an invaluable reference and a potential main text to senior undergraduates and postgraduate students studying fibre optics, integrated optics, or optical network technology.

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Silicon Photonics: An Introduction: Reed, Graham T ...

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

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

Silicon Photonics - Thomson - - Major Reference Works ...

From design and simulation through to testing and fabrication, this hands-on introduction to silicon

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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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