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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. The silicon typically lies on top of a layer of silica in what ...

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The future of packaging with silicon photonics By Deborah Patterson [Patterson Group]; Isabel De Sousa, Louis-Marie Achard [IBM Canada, Ltd.] It has been almost a decade since the introduction of the iPhone, a device that so successfully blended sleek hardware with an intuitive user interface that it effectively jump-started a global shift in

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Fundamentals of Silicon Photonic Devices B. Thomas Smith, Dazeng Feng, Hongbing Lei, Dawei Zheng, Joan Fong, and Mehdi Asghari. Main: 626-236-4500, email: tsmith@kotura.com Kotura, Inc., 2630 Corporate Place, Monterey Park, CA. 91754, USA This paper offers a brief introduction to silicon photonics including the basic optical waveguide, passive

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micromachines Review Introduction to Photonics: Principles and the Most Recent Applications of Microstructures Iraj Sadegh Amiri 1, Saaidal Razalli Bin Azzuhri 2 ID, Muhammad Arif Jalil 3, Haryana Mohd Hairi 4, Jalil Ali 5, Montree Bunruangses 6 and Preecha Yupapin 7,8,* 1 Division of Materials Science and Engineering, Boston University, Boston, MA 02215, USA; amiri@bu.edu

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Fiber-to-waveguide evanescent coupler for planar integration of silicon optoelectronic devices, in Photonics Packaging and Integration IV, vol. 5358 (International Society for Optics and Photonics, 2004), pp. 102-111 Google Scholar

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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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in photonics (Integrated Optics). Over the last few years a new ?eld

called Silicon-Photonics came to life. Modern nanofabrication techniques such as Scanning Electron Beam Lithography enable the fabrication of optical components on the scale of the optical wavelength with a relative precision in the

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