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The photonics complexity of high performance optical transceivers with large numbers of functions on both the transmit and receive sides is driving optical vendors to embrace photonic integration. Current integrated photonic approaches utilize Silicon Photonics and similar technologies to combine multiple electro optical functions into a single photonic integrated circuit PIC.

These functions would normally be provided by multiple separate optical components such as modulators, wavelength de multiplexers and detectors. The dense integration of components reduces footprint and power.

**Tutorial** This section provides a basic overview of the principles of a general PIC layout. fibre optics, grating and edge couplers, a fibre array with optical shunts, wire bonding and thermo electric control.

It concludes by describing the Tyndall PCB modules which have been developed to allow new users to develop fully packaged photonic modules that offer easy optical and electrical Photonics systems. These are usually analyzed in terms of individual photons although wave methods still characterize the guidance of waves through optical fibers, space or other media.

This chapter introduces optical communications and applications of photonics in Section 12.1. Electronics are increasingly supplemented by optics with the introduction of optical communication systems in the 1980s for long distance telecommunication, lasers, photodetectors, optical fiber, waveguides, optical amplifiers, etc.

Photonic building blocks complement electronics. Optical O Coupler Simulation Goal: Robust and efficient coupling of photonic components to optical fiber or another photonic component. Ansys Lumerical and Zemax offer interoperability that enable engineers to accurately account for both nano scale and macro scale optical effects in their devices using wave optics and ray tracing simulation. A optical modulation amplitude (OMA) sensitivity of 5.4 dBm was measured on the PD at KP4 FEC BER limit of 2.4e-4 see Fig.

4. d. The total energy consumption was recorded during the tests and did not exceed 10 pJ/bit or 4W at 400 Gbit/s.

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