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Efficient cost-effective optical integration approaches are necessary for optical interconnects to realize their potential for improved power efficiency at higher data rates

We developed a way of predicting and analyzing high speed optical modulator. Our research adopted a bottom-up approach to consider high-speed optical links using an eye diagram.

PDF | In this paper, a horizontal slot Si-VO<sub>2</sub>-Si optical waveguide is proposed and its optical properties are investigated.

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Model and simulate a Germanium-Silicon (GeSi) electro-absorption modulator (EAM) on Silicon-on-insulator (SOI). The eigenmode expansion (EME) and CHARGE solvers are used to simulate the ...

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LEDs and semiconductor lasers. These simulation models play a significant role in circuit and optical simulations and have contributed to improvement in design efficiency and precision. This application ...

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