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**Lecture 39: Optical Modulators  
Semiconductor Optical  
Communication Components and  
Devices. Modulation of light Diode  
Lasers can be directly modulated,**

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**however, for high-speed modulation there is line broadening due to Chirping through the Henry factor ( $\alpha$  H).**

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**Semiconductor optical amplifiers (SOAs) are essentially laser diodes, without end mirrors, which have fiber attached to both ends. SOAs amplify incident light by the stimulated emission process using**

**the same mechanism as laser diode. An optical input signal enters the semiconductor active region through coupling optics as shown in Fig.6.**

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**Optical fiber communication devices support a wide variety of**

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**fiber-optic communication systems, such as subscriber systems, metro-type systems and backbone systems.**

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**Sivers Semiconductors Group is an international supplier of advanced 5G systems to data- and telecommunication networks and optical products to optical fiber networks, sensors and optical wireless communication (Li-Fi).**

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## Types of Semiconductor Devices and Applications

**Optical semiconductor devices are divided into two major groups: luminescent devices (light-emitting diodes and laser diodes), and light-receiving devices (solar cells and**

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**photo-detectors). The wavelengths of the light depend on the optical semiconductor materials used.**

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Products & solutions ...](#)**

**Optical devices with built-in**

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**topological protection with a small footprint are fascinating as on-chip optical devices for low-loss and functional photonic integrated circuits. Semiconductor photonic crystals are promising platforms enabling the miniaturization of topological optical devices.**



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**Disclosed in a semiconductor laser device for use in a system or apparatus utilizing light for information transmission in optical communication or the like, in which**

**lattice defects or the like are prevented from occurring in the vicinity of a light-emitting active area to thereby reduce a leakage current which substantially makes no contribution to light emission.**

## **Semiconductor in-line fiber devices**

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**Providing an all-inclusive treatment of electronic and optoelectronic devices used in high-speed optical communication systems, this book emphasizes circuit applications, advanced device design solutions,**

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**and noise in sources and receivers.  
Core topics covered include  
semiconductors and  
semiconductor optical properties,  
high-speed circuits and transistors,  
detectors, sources, and  
modulators.**

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**Optical Semiconductor Devices  
MOSFETs Intelligent Power ICs  
Power Management ICs Motor  
Driver ICs Linear ICs Bipolar  
Transistors / IGBTs Diodes**

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**Microcontrollers ... Communication  
interface Function: Low IF Number  
of Circuits: 1 Input type: DC RoHS  
Compatible Product(s) (#) ...**

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**Optical amplifiers used in optical communications are erbium-doped fiber amplifiers, semiconductor optical amplifiers, Raman amplifiers and optical parametric amplifiers. A very advanced research topic on optical amplifiers is the research on quantum dot**

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**semiconductor optical amplifiers.  
Detection. Photodetectors detect  
light.**

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**Abstract: The current status of**

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**semiconductor lasers used in coherent optical fiber communications is reviewed for nonexperts in the field. The issues of spectral purity, tuning, modulation, and advanced fabrication methods for photonic integration are discussed, with**

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**examples drawn from current  
experimental devices.**

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**QD-based semiconductors are  
promising materials for next-**

**generation high-speed optical communication devices. Lasers based on QD semiconductors have already demonstrated better optical performance such as low lasing threshold current densities, small chirp at high-speed modulation, wide tunability, and passive mode-**

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**devices for optical communication  
what is an optical semiconductor  
optical semiconductor devices are  
divided into two major groups  
luminescent devices light emitting  
diodes and laser diodes and light  
receiving devices semiconductor**

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**semiconductor (GaAs, InP and GaN ) wafer foundry service provider that manufactures technology leading, high performance, high quality, semiconductor devices.**

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**Optical Communication Devices  
March 2002 ... Nevertheless,  
semiconductor devices in general  
can malfunction or fail due to their  
inherent electrical sensitivity and  
vulnerability to physical stress. It is  
the responsibility of the buyer,  
when utilizing TOSHIBA products,**



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safety in making a safe design for  
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and testing of practical lasers the

material is presented clearly with

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**For contributions to the design of**

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**high-speed integrated circuits for optical communication systems.**

**1994: Richard Temkin: For**

**leadership in the development and application of millimeter-wave and**

**infrared coherent sources 1994:**

**Wen Wang: For contributions to**

**compound semiconductor devices**

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through innovative crystal growth  
1994: Peter Zory

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