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Semiconductor 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 (solar cells and photo-detectors). The wavelengths of the light depend on the optical semiconductor materials used.

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Optical Fiber Communication Devices - Mitsubishi Electric

Optoelectronic Devices for Communication Networks •

Requirements to understand the concepts of

Optoelectronic Devices: 1. We need to study concepts of light properties 2. Some concepts of solid state materials in particular semiconductors. 3. Light + Solid State Materials

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Fiber-optic communication is a method of transmitting information from one place to another by sending pulses of infrared light through an optical fiber. The light forms an electromagnetic carrier wave that is modulated to

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carry information. Fiber is preferred over electrical cabling when high bandwidth, long distance, or immunity to electromagnetic interference are required.

What is an optical semiconductor? | What's KYOTO SEMICONDUCTOR

conductor devices. We started the research and development of compound semiconductor devices for optical communication from the middle of the 1980's in order to establish optical communication business vertically integrating technology from materials, devices to systems. This paper describes the development of the semi -

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Semiconductor Devices for Optical Communications: Optica ...

semiconductor in-line fiber devices for optical communication systems a dissertation submitted to the department of electrical engineering and the committee on graduate studies of stanford university in partial fulfillment of the requirements for the degree of doctor of

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