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Optical
Communication
Topics In
Applied Physics

**Semiconductor
or Devices
For Optical
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Topics
In Applied
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Fiber optics #37

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Photodetectors

Page 5/45

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\u0026 its

Characteristics

Semiconductor

Optical

Amplifier

Basics, Working

\u0026

Characteristics

~~LED — Light~~

~~Emitting Diode (~~

~~Characteristics,~~

~~Working \u0026~~

~~Application)~~

Fiber Optics in

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*the LAN and Data
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Sources and

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*Fiber / Lecture
5 / Radar and
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Communication For

Lecture 8:

Optical

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What is Raman

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Amplifier? What

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Devices For

*(Wavelength
Division
Multiplexer)?*

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~~Dispersion in
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~~Unit 3 Fiber~~

~~Optics \u0026~~

~~Applications~~

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~~Communication~~

~~System, Light~~

~~Sources)~~

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~~Introduction to
Photonics~~

Optical sources

Surface Emitting

LED (Basics,
Structure,

Working,

Radiation,

Advantages,

Properties

\u0026

Disadvantages)

Direct

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Indirect band
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Optical Fiber
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system How to
Splice Optical
Fiber Cable
(Urdu/Hindi)

Introduction to
Optoelectronics
and Photonics

Semiconductor

Optical

Amplifiers (SOA)

Performance

Optimization in

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System Mod-01

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Introduction

UGC-NET Paper 1

Topics in, 3

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Science)

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Advantages –
Benefits, Uses
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Devices for

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H...H optical signals.

Some of the advantages of

TDM over all

optical devices include compact

size, lower

cost, high

reliability and

versatility in

the operation.

However the

optimum

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performance or bit-rate depends on the speed of each individual circuit, which is primarily limited by the semiconductor technology used. In general, a TDM system

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devices for

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fiber optic
communication
systems

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

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

What is an optical semiconductor? |
What's KYOTO

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various kinds of

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lasers have been

developed for

the application

to wavelength

division

multiplexing,

high speed, low

power

consumption, and

photonic

integration.

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Development of Semiconductor Laser for Optical Communication

An SOA
(Semiconductor

Optical
Amplifier) is a
semiconductor
element that
amplifies light.

Antireflective
processing is

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applied on both facets of a semiconductor laser to

eliminate the resonator structure. When light enters from outside the semiconductor, the light is amplified by stimulated emission. SOA is

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Devices For
amplifying an
optical signal.
SOAs are

included in the
optical
transceiver

modules used for
communication

between data
centers to

amplify the
optical signal
in the 1.3 μm

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Sep 07, 2020

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10 Best Printed

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SOA Devices For

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for
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Optical Communication

Receiver design
for optical
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Devices Outline
With the rapid
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internet and
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maintenance of
the fiber-optic
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introduce metro-
type and access-
type fiber-optic
communications
even in
corporate LAN.

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Electric

Photorelays or

Solid State

Relays are

semiconductor

relays

consisting of an

LED optically

coupled to a

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MOSFETs that are used mainly as replacements for signal relays.

Having no movable contacts, photorelays are known to have better long-term reliability than mechanical relays.

Parametric

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emitting diodes
and laser diodes
and light

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devices solar
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30 E-Learning

Book

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Page 40/45

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The Optical and
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Devices In group
was founded
within the

Department of
Electrical and
Electronic
Engineering in
1980. Its
research
interests are

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broad and multi-disciplinary.

Much of our work is concerned

with the development of micro-electro-mechanical

systems (MEMS), optical devices, low-power and microwave devices, and energy

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