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Most optical semiconductor devices are optoelectronic pn-junction devices, such as laser diodes, light-emitting diodes, and photodiodes. The main interest in the field of optoelectronic devices has shifted from device physics and operation principles to device applications. That is why we require a wide range of knowledge related to optoelectronic semiconductor devices.

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The first true introduction to semiconductor optoelectronic devices, this book provides an accessible, well-organized overview of optoelectronic devices that emphasizes basic principles.

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Semiconductor optoelectronic devices for lightwave communication 8-10 September 2003, Orlando, Florida, USA, Joachim Piprek, Society of Photo-optical Instrumentation Engineers, 2003, Technology & Engineering, 296 pages. .

Solutions Manual: Semiconductor Optoelectronic Devices

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ics. Silicon is the most important semiconductor and is the active material in almost all electronic devices. A few other semiconductors- for example, gallium arsenide- are essential because they can be used to make optoelectronic devices. We will focus on semiconductor silicon.

SEMICONDUCTOR DEVICES AND SAMPLE distribution TECHNOLOGY

of this device. In its simplest form, a p-n junction diode can be constructed as a homojunction, using an abrupt change between p- and n-type regions in a single piece of semiconductor. Figure 12.1-1 illustrates the formation of a diode, in a one-dimensional 'thought experiment' based on the ideas of the previous Chapter. The p- and n-regions might initially be considered to be separated slabs of material.

CHAPTER TWELVE OPTOELECTRONIC DEVICES

The second part of the book investigates modern optoelectronic devices, including light-emitting diodes,

edge-emitting lasers, vertical-cavity lasers, electroabsorption modulators, and a novel combination of amplifier and photodetector.

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Optoelectronic Devices - the electronic technology in which optical radiation is emitted, modified, or converted (as in electrical-to-optical or optical-to- electrical).

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