



HANDBOOK OF OPTOELECTRONIC DEVICE MODELING AND SIMULATION  
FUNDAMENTALS MATERIALS NANOSTRUCTURES LEDS AND AMPLIFIERS VOL 1



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Electromagnetic radiation spectrum. The optical fiber is a waveguide used for transmission of light. It consists of a dielectric fiber core, usually from glass, surrounded by a layer of glass or plastic cladding characterized by the refraction index lower than that of the core.

### **FUNDAMENTALS OF OPTOELECTRONICS AND FIBER OPTIC**

Most semiconductor optoelectronic devices are pn-junction diodes, and their performance depends on the properties of the pn-junction and of the semiconductor material. To better describe the operation of laser diodes, LEDs, photodiodes, etc., it is necessary to understand the basics of the processes involved.



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