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Fundamentals Of Optoelectronics And Fiber

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. The light

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1.1.

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Optoelectronics is beginning to emerge as the third wave of microsystem technologies, fueled by the invention of laser, low loss optical fibers and their packaging. The advantage of photons in synergy with electrons, called optoelectronics, is becoming the pillarstone of today s and tomorrow s Internet traffic.

Chapter 12: Fundamentals of Optoelectronics | Engineering360

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Introduces the optoelectronic fundamentals needed to understand fiber optic (and related) devices and systems. The book begins with a basic introduction to essential concepts of optics and solid state physics, and the fundamentals of light modulation. Next, it introduces display devices, lasers, photodetectors, fiber optic waveguides, and other optoelectronic devices.

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With emphasis on the physical and engineering principles, this book provides a comprehensive and highly accessible treatment of modern lasers and optoelectronics. Divided into four parts, it explains laser fundamentals, types of lasers, laser electronics & optoelectronics, and laser applications, covering each of the topics in their entirety, from basic fundamentals to advanced concepts.

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