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**Solution** Fiber Optic Communication Systems Solution

Fiber?Optic Communication Systems. Author(s): Govind P. Agrawal; First published: 28 May 2002. ...  
GOVIND P. AGRAWAL is a professor at the Institute of Optics at the University of Rochester and a Fellow  
of both the Optical Society of America and the Institute of Electrical and Electronics Engineering. He  
is the author or coauthor of over 300 ...

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18 Problem Solutions for Chapter 8. 8-1. SYSTEM 1: From Eq. (8-2) the total optical power loss allowed between the light source and the photodetector is.  $P_T = P_S - P_R = 0 \text{ dBm} - (-50 \text{ dBm}) = 50 \text{ dB} = 2(1c) + ?fL + \text{system margin} = 2(1 \text{ dB}) + (3.5 \text{ dB/km})L + 6 \text{ dB}$ . which gives  $L = 12 \text{ km}$  for the maximum transmission distance. SYSTEM 2: Similarly, from Eq. (8-2)

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Modern fiber-optic communication systems generally include an optical transmitter to convert an electrical signal into an optical signal to send through the optical fiber, a cable containing bundles of multiple optical fibers that is routed through underground conduits and buildings, multiple kinds of amplifiers, and an optical receiver to recover the signal as an electrical signal.

*Fiber-optic communication - Wikipedia*

A complete, up-to-date review of fiber-optic communication systems theory and practice Fiber-optic communication systems technology continues to evolve rapidly. In the last five years alone, the bit rate of commercial point-to-point links has grown from 2.5 Gb/s to 40 Gb/s-and that figure is expected to more than double over the next two years!

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Solution: 10. Is the different angle of entry of light into an optical fiber when the diameter of the core is many times the wavelength of the light transmitted.

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Wireless backhaul is easy to deploy, cost efficient and can provide high capacity connectivity (multiple GBPS and even 10s of GBPS). Wireline fiber backhaul, on the other hand, can provide practically endless capacity, but requires investment in deploying fiber as well as in optical equipment. The abovementioned tradeoff is considered when planning.

*Backhaul (telecommunications) - Wikipedia*

In this video, i have covered Need of fiber optic communication systems with following outlines. 0. Need of fiber optic communication systems 1. Advantages o...

*Need of fiber optic communication systems - YouTube*

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