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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.  $P_T = P_S - PR = 0 \text{ dBm} - (-50 \text{ dBm}) = 50 \text{ dB} = 2(l_c) + \alpha L + \text{system margin} = 2(1 \text{ dB}) + (3.5 \text{ dB/km})L + 6 \text{ dB}$ . which gives  $L = 12 \text{ km}$  for the maximum transmission distance. SYSTEM 2: Similarly, from Eq. (8-2)

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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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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

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