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

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Fiber-optic communication -  
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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

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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.

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Backhaul (telecommunications) -  
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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...

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