

# Chapter 1

1. In case of an accident, there is a high chance of getting lost. The transportation cost is very high each time. However, if the infrastructure is set once, it will be very easy to use it repeatedly. Time for wireless transmission is negligible as signals travel at the speed of light.
2. Advantages of bursty data communication
  - (a) Pulses are made very narrow, so multipaths are resolvable
  - (b) The transmission device needs to be switched on for less time.

Disadvantages

- (a) Bandwidth required is very high
  - (b) Peak transmit power can be very high.
3.  $P_b = 10^{-12}$   
 $\frac{1}{25} = 10^{-12}$   
 $\tau = \frac{10^{-12}}{2} = 5 \times 10^{11}$  (very high)
  4. Geo: 35,786 Km above earth  $\Rightarrow RTT = \frac{2 \times 35786 \times 10^3}{c} = 0.2386s$   
 MEO: 8,000- 20,000 Km above earth  $\Rightarrow RTT = \frac{2 \times 8000 \times 10^3}{c} = 0.0533s$   
 Leo: 500- 2,000 Km above earth  $\Rightarrow RTT = \frac{2 \times 2000 \times 10^3}{c} = 0.0033s$   
 Only Leo satellites as delay = 3.3ms < 30ms

5.

6. optimum no. of data user = d  
 optimum no. of voice user = v  
 Three different cases:  
 Case 1: d=0, v=6  
 $\Rightarrow revenue = 60.80.2 = 0.96$

Case 2: d=1, v=3

revenue = [prob. of having one data user]  $\times$  (revenue of having one data user)  
 + [prob. of having two data user]  $\times$  (revenue of having two data user)  
 + [prob. of having one voice user]  $\times$  (revenue of having one voice user)  
 + [prob. of having two voice user]  $\times$  (revenue of having two voice user)  
 + [prob. of having three or more voice user]  $\times$  (revenue in this case)

$$\begin{aligned} \Rightarrow & 0.5^2 \left( \frac{2}{1} \right) \times \$1 + 0.5^2 \times \$1 + \left( \frac{6}{1} \right) 0.8 \times 0.2^5 \times \$0.2 + \left( \frac{6}{2} \right) 0.8^2 \times 0.2^4 \times \$0.4 + \\ & \left[ 1 - \left( \frac{6}{1} \right) 0.8 \times 0.2^5 \times \$0.2 - \left( \frac{6}{2} \right) 0.8^2 \times 0.2^4 \times \$0.4 \right] \times \$0.6 \\ \Rightarrow & \$1.35 \end{aligned}$$

Case 3: d=2, v=0

revenue =  $2 \times 0.5 = \$1$

So the best case is case 2, which is to allocate 60kHz to data and 60kHz to voice.

# Goldsmith Wireless Communications Solution Manual

**S Baum**



## **Goldsmith Wireless Communications Solution Manual:**

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### **Table of Contents Goldsmith Wireless Communications Solution Manual**

1. Understanding the eBook Goldsmith Wireless Communications Solution Manual
  - The Rise of Digital Reading Goldsmith Wireless Communications Solution Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Goldsmith Wireless Communications Solution Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Goldsmith Wireless Communications Solution Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Goldsmith Wireless Communications Solution Manual
  - Personalized Recommendations
  - Goldsmith Wireless Communications Solution Manual User Reviews and Ratings
  - Goldsmith Wireless Communications Solution Manual and Bestseller Lists

5. Accessing Goldsmith Wireless Communications Solution Manual Free and Paid eBooks
  - Goldsmith Wireless Communications Solution Manual Public Domain eBooks
  - Goldsmith Wireless Communications Solution Manual eBook Subscription Services
  - Goldsmith Wireless Communications Solution Manual Budget-Friendly Options
6. Navigating Goldsmith Wireless Communications Solution Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Goldsmith Wireless Communications Solution Manual Compatibility with Devices
  - Goldsmith Wireless Communications Solution Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Goldsmith Wireless Communications Solution Manual
  - Highlighting and Note-Taking Goldsmith Wireless Communications Solution Manual
  - Interactive Elements Goldsmith Wireless Communications Solution Manual
8. Staying Engaged with Goldsmith Wireless Communications Solution Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Goldsmith Wireless Communications Solution Manual
9. Balancing eBooks and Physical Books Goldsmith Wireless Communications Solution Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Goldsmith Wireless Communications Solution Manual
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Goldsmith Wireless Communications Solution Manual
  - Setting Reading Goals Goldsmith Wireless Communications Solution Manual
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Goldsmith Wireless Communications Solution Manual
  - Fact-Checking eBook Content of Goldsmith Wireless Communications Solution Manual
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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