

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. $P_b = 10^{-12}$
 $\frac{1}{29} = 10^{-12}$
 $\gamma = \frac{10^{12}}{2} = 5 \times 10^{11}$ (very high)

4. Geo: 35,786 Km above earth $\Rightarrow RTT = \frac{2 \times 35786 \times 10^3}{c} = 0.2386s$
 Mco: 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 $\Rightarrow RTT = \frac{2 \times 500 \times 10^3}{c} = 0.0033s$
 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 users] $\times$ (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.

Wireless Communication Solution Manual 30 Exercises

Tobias Bleicker



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Table of Contents Wireless Communication Solution Manual 30 Exercises

1. Understanding the eBook Wireless Communication Solution Manual 30 Exercises
 - The Rise of Digital Reading Wireless Communication Solution Manual 30 Exercises
 - Advantages of eBooks Over Traditional Books
2. Identifying Wireless Communication Solution Manual 30 Exercises
 - 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 Wireless Communication Solution Manual 30 Exercises
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wireless Communication Solution Manual 30 Exercises
 - Personalized Recommendations
 - Wireless Communication Solution Manual 30 Exercises User Reviews and Ratings
 - Wireless Communication Solution Manual 30 Exercises and Bestseller Lists
5. Accessing Wireless Communication Solution Manual 30 Exercises Free and Paid eBooks
 - Wireless Communication Solution Manual 30 Exercises Public Domain eBooks
 - Wireless Communication Solution Manual 30 Exercises eBook Subscription Services
 - Wireless Communication Solution Manual 30 Exercises Budget-Friendly Options

6. Navigating Wireless Communication Solution Manual 30 Exercises eBook Formats
 - ePub, PDF, MOBI, and More
 - Wireless Communication Solution Manual 30 Exercises Compatibility with Devices
 - Wireless Communication Solution Manual 30 Exercises Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wireless Communication Solution Manual 30 Exercises
 - Highlighting and Note-Taking Wireless Communication Solution Manual 30 Exercises
 - Interactive Elements Wireless Communication Solution Manual 30 Exercises
8. Staying Engaged with Wireless Communication Solution Manual 30 Exercises
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wireless Communication Solution Manual 30 Exercises
9. Balancing eBooks and Physical Books Wireless Communication Solution Manual 30 Exercises
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wireless Communication Solution Manual 30 Exercises
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Wireless Communication Solution Manual 30 Exercises
 - Setting Reading Goals Wireless Communication Solution Manual 30 Exercises
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Wireless Communication Solution Manual 30 Exercises
 - Fact-Checking eBook Content of Wireless Communication Solution Manual 30 Exercises
 - 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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