Chapter 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. $P_b = 10^{-12}$ $\frac{1}{200} = 10^{-12}$ $\% = \frac{10^{12}}{5} = 5 \times 10^{11} \text{ (very high)}$
- 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 $\Rightarrow RTT = \frac{2 \times 500 \times 10^5}{2 \times 500 \times 10^5} = 0.0033s$ Only Leo satellites as delay = 3.3ms < 30ms

250

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

Case 2: d=1, v=3

revenue = $[prob, of having one data user] \times (revenue of having one data user)$

$$\Rightarrow 0.5^{2} \begin{pmatrix} 2 \\ 1 \end{pmatrix} \times \$1 + 0.5^{2} \times \$1 + \begin{pmatrix} 6 \\ 1 \end{pmatrix} 0.8 \times 0.2^{5} \times \$0.2 + \begin{pmatrix} 6 \\ 2 \end{pmatrix} 0.8^{2} \times 0.2^{4} \times \$0.4 + \\ \left[1 - \begin{pmatrix} 6 \\ 1 \end{pmatrix} 0.8 \times 0.2^{5} \times \$0.2 - \begin{pmatrix} 6 \\ 2 \end{pmatrix} 0.8^{2} \times 0.2^{4} \times \$0.4\right] \times \$0.6$$

$$\Rightarrow \$1.35$$

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

Jiyuan Zhang

Goldsmith Wireless Communications Solution Manual:

Wireless Communications Andrea Goldsmith, 2005-08-08 A comprehensive introduction to the basic principles design techniques and analytical tools of wireless communications Wireless Sensor Networks Ibrahiem M. M. El Emary, S. Ramakrishnan, 2013-08-28 Supplying comprehensive coverage of WSNs this book covers the latest advances in WSN technologies It considers some of theoretical problems in WSN including issues with monitoring routing and power control and details methodologies that can provide solutions to these problems It examines applications of WSN across a range of fields including health defense military transportation and mining Addressing the main challenges in applying WSNs across all phases of our life it explains how WSNs can assist in community development **Mathematical Foundations for** Signal Processing, Communications, and Networking Erchin Serpedin, Thomas Chen, Dinesh Rajan, 2017-12-04 Mathematical Foundations for Signal Processing Communications and Networking describes mathematical concepts and results important in the design analysis and optimization of signal processing algorithms modern communication systems and networks Helping readers master key techniques and comprehend the current research literature the book offers a comprehensive overview of methods and applications from linear algebra numerical analysis statistics probability stochastic processes and optimization From basic transforms to Monte Carlo simulation to linear programming the text covers a broad range of mathematical techniques essential to understanding the concepts and results in signal processing telecommunications and networking Along with discussing mathematical theory each self contained chapter presents examples that illustrate the use of various mathematical concepts to solve different applications Each chapter also includes a set of homework exercises and readings for additional study This text helps readers understand fundamental and advanced results as well as recent research trends in the interrelated fields of signal processing telecommunications and networking It provides all the necessary mathematical background to prepare students for more advanced courses and train specialists working in these areas The Wireless Age ,1918 Space Antenna Handbook William A. Imbriale, Steven Shichang Gao, Luigi Boccia, 2012-05-02 This book addresses a broad range of topics on antennas for space applications First it introduces the fundamental methodologies of space antenna design modelling and analysis as well as the state of the art and anticipated future technological developments Each of the topics discussed are specialized and contextualized to the space sector Furthermore case studies are also provided to demonstrate the design and implementation of antennas in actual applications Second the authors present a detailed review of antenna designs for some popular applications such as satellite communications space borne synthetic aperture radar SAR Global Navigation Satellite Systems GNSS receivers science instruments radio astronomy small satellites and deep space applications Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications Key Features Presents a detailed review of antenna designs for applications such as satellite communications space borne SAR GNSS receivers science instruments

small satellites radio astronomy deep space applications Addresses the space antenna development from different angles including electromagnetic thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in depth reference for antenna engineers who develop space antennas This book serves as an excellent reference for researchers professionals and graduate students in the fields of antennas and propagation electromagnetics RF microwave millimetrewave systems satellite communications radars satellite remote sensing satellite navigation and spacecraft system engineering It also aids engineers technical managers and professionals working on antenna and RF designs Marketing and business people in satellites wireless and electronics area who want to acquire a basic understanding of the technology will also find this book of interest

Solutions Manual Wireless Communications Zhigang

Rong, Theodore S Rappaport, 2009-11-01

Book Bulletin of the Chicago Public Library Chicago Public Library, 1919

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