

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)

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

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.

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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

Book Bulletin Chicago Public Library, 1918 **Net Neutrality** Christopher T. Marsden, 2010-01-18 This book is available as open access through the Bloomsbury Open Access programme and is available on www.bloomsburycollections.com Chris Marsden maneuvers through the hype articulated by Netwrok Neutrality advocates and opponents He offers a clear headed analysis of the high stakes in this debate about the Internet s future and fearlessly refutes the misinformation and misconceptions that about Professor Rob Freiden Penn State University Net Neutrality is a very heated and contested policy principle regarding access for content providers to the Internet end user and potential discrimination in that access where the end user s ISP or another ISP blocks that access in part or whole The suggestion has been that the problem can be resolved by either introducing greater competition or closely policing conditions for vertically integrated service such as VOIP However that is not the whole story and ISPs as a whole have incentives to discriminate between content for matters such as network management of spam to secure and maintain customer experience at current levels and for economic benefit from new Quality of Service standards This includes offering a priority lane on the network for premium content types such as video and voice service The author considers market developments and policy responses in Europe and the United States draws conclusions and proposes regulatory recommendations *Proceedings* , 2003

Embracing the Song of Term: An Mental Symphony within **Goldsmith Wireless Communications Solution Manual**

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