Experiment la:

Aim: To develop a MATLAB code for computation of Pathloss between the transmitter and receiver in wireless environment.

Theory:

The path loss, which represents signal attenuation as a positive quantity measured in dB, is defined as the difference between the effective transmitted power and the received power, and may or not include the antenna gains. The path loss for the free space model when antenna gains are included is given by

$$PL(dB)=10log(P_t/P_t)=-10log[G_tG_t\lambda^2/(4n)^2d^2]$$

When antenna gains are excluded, the antennas are assumed to have unity gain, and path loss is given by

$$PL(dB)=10log(P_t/P_r)=-10log[\lambda^2/(4n)^2d^2]$$

The Friis free space model is only a valid predictor for P_r for values of d which are in the far-field region of the transmitting antenna i.e the region beyond the far field distance df, which is related to the largest linear dimension(D) of the transmitting antenna aperture and the carrier wavelength.

$d_f=2D^2/\lambda$

Program:

% This program calculate the Free Space Propagation Loss % with assumption of unity antenna gain for transmit and %receive antenna collect close all: clear all: f = input('Enter carrier frequency:'); $c = 3*10^8:$ % Calculate Wavelength lamidame/f: D=input('Enter the diameter of the Transmitting Antenna in meter:'); %calculate fraunhofer(far-field region) distance df=2*D^2/lamda: %Calculate pathloss when distance between the antennas is greater than df d = 0:1:100000:if d>=df $Lp = (4*pi*d/lamda).^2$: college. Lp=0: end subplot(2,1,1): plot(d.Lp.'b'): xlabel('x-> d (distance in Km)'); ylabel('y--> Lp (path loss)'); title('Free space model');

Wireless Communication Lab Manual

Huseyin Arslan

Wireless Communication Lab Manual:

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Table of Contents Wireless Communication Lab Manual

- 1. Understanding the eBook Wireless Communication Lab Manual
 - The Rise of Digital Reading Wireless Communication Lab Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Wireless Communication Lab Manual
 - Exploring Different Genres
 - $\circ\,$ 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 Lab Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Wireless Communication Lab Manual
 - Personalized Recommendations
 - Wireless Communication Lab Manual User Reviews and Ratings
 - Wireless Communication Lab Manual and Bestseller Lists
- 5. Accessing Wireless Communication Lab Manual Free and Paid eBooks
 - Wireless Communication Lab Manual Public Domain eBooks
 - Wireless Communication Lab Manual eBook Subscription Services
 - Wireless Communication Lab Manual Budget-Friendly Options
- 6. Navigating Wireless Communication Lab Manual eBook Formats
 - o ePub, PDF, MOBI, and More
 - Wireless Communication Lab Manual Compatibility with Devices
 - Wireless Communication Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Wireless Communication Lab Manual
 - Highlighting and Note-Taking Wireless Communication Lab Manual
 - Interactive Elements Wireless Communication Lab Manual
- 8. Staying Engaged with Wireless Communication Lab Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Wireless Communication Lab Manual
- 9. Balancing eBooks and Physical Books Wireless Communication Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wireless Communication Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Wireless Communication Lab Manual
 - Setting Reading Goals Wireless Communication Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Wireless Communication Lab Manual
 - Fact-Checking eBook Content of Wireless Communication Lab 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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