

Experiment 1a:

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

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

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

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

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 d_f , 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
clc;
close all;
clear all;
f = input('Enter carrier frequency:');
c = 3*10^8;
%Calculate Wavelength
lamda=c/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 = 0:1:10000;
if d>=df
    Lp =(4*pi*d/lamda).^2;
else
    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

**Prashant Ranjan,Ram Shringar
Rao,Krishna Kumar,Pankaj Sharma**



Wireless Communication Lab Manual:

Guide to Wireless Communication Jorge Olenewa, 2007-05-22 The Lab Manual for WIRELESS GUIDE TO WIRELESS COMMUNICATIONS 2nd Edition is a valuable tool designed to enhance your classroom experience Lab activities objectives materials lists step by step procedures illustrations review questions and more are all included **The Hands-on XBEE Lab Manual** Jonathan A Titus, 2012-07-02 Get the practical knowledge you need to set up and deploy XBee modules with this hands on step by step series of experiments The Hands on XBee Lab Manual takes the reader through a range of experiments using a hands on approach Each section demonstrates module set up and configuration explores module functions and capabilities and where applicable introduces the necessary microcontrollers and software to control and communicate with the modules Experiments cover simple setup of modules establishing a network of modules identifying modules in the network and some sensor interface designs This book explains in practical terms the basic capabilities and potential uses of XBee modules and gives engineers the know how that they need to apply the technology to their networks and embedded systems Jon Titus KZ1G is a Freelance technical writer editor and designer based in Herriman Utah USA and previously editorial director at Test enables you to get up and running quickly with step by step tutorials Provides insight into the product data sheets saving you time and helping you get straight to the information you need Includes troubleshooting and testing information plus downloadable configuration files and fully documented source code to illustrate and explain operations **Microwave and Optical Communications Lab Manual** Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels CompTIA Network+ Lab Manual Toby Skandier, 2012-01-31 Gain street smart skills in network administration Think of the most common and challenging tasks that network administrators face then read this book and find out how to perform those tasks step by step CompTIA Network Lab Manual provides an inside look into the field of network administration as though you were actually on the job You ll find a variety of scenarios and potential roadblocks as well as clearly mapped sections to help you prepare for the CompTIA Network Exam N10 005 Learn how to design implement configure maintain secure and troubleshoot a network with this street smart guide Provides step by step instructions for many of the tasks network administrators perform on a day to day basis such as configuring wireless components placing routers and servers configuring hubs switches and routers configuring a Windows client and troubleshooting a network Addresses the CompTIA Network Exam N10 005 objectives and also includes a variety of practice labs giving you plenty of opportunities for hands on skill building Organized by the phases of network administration designing a network implementing and configuring it maintenance and security and troubleshooting Study practice and review for the new CompTIA Network N10 005 Exam or a networking career with this

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