

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

James M. Ryan



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 **Wireless Communication Signals** Huseyin Arslan, 2021-04-06 WIRELESS COMMUNICATION SIGNALS A practical guide to wireless communication systems and concepts Wireless technologies and services have evolved significantly over the last couple of decades and Wireless Communication Signals offers an important guide to the most recent advances in wireless communication systems and concepts grounded in a practical and laboratory perspective Written by a noted expert on the topic the book provides the information needed to model simulate test and analyze wireless system and wireless circuits using modern instrumentation and computer aided design software Designed as a practical resource the book provides a clear understanding of the basic theory software simulation hardware test and modeling system component testing software and hardware interactions and co simulations This important book Provides organic and harmonized coverage of wireless communication systems Covers a range of systems from radio hardware to digital baseband signal processing Presents information on testing and measurement of wireless communication systems and subsystems Includes MATLAB file codes Written for professionals in the communications industry technical managers and researchers in both academia and industry Wireless Communication Signals introduces wireless communication systems and concepts from both a practical and laboratory perspective 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

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Networks Lab Manual, Fourth Edition (Exam N10-006) Mike Meyers, Jonathan S. Weissman, 2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10 006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors

Wireless Communications Security Jyrki T. J. Penttinen, 2016-10-18 Dieses Buch beschreibt die heutigen und die zukünftig wahrscheinlichsten Sicherheitslösungen für die drahtlose Kommunikation Der Schwerpunkt liegt auf der technischen Erläuterung bestehender Systeme und neuer Trends wie Internet der Dinge IoT Diskutiert werden ebenfalls heutige und potenzielle Sicherheitsbedrohungen Verfahren für den Schutz von Systemen Betreibern und Endanwendern Arten von Angriffen auf Sicherheitssysteme und neue Gefahren in dem sich ständig entwickelnden Internet werden vorgestellt Das Buch ist ein Praktikerbuch das die Entwicklung drahtloser Kommunikationsumgebungen erläutert und zeigt wie neue Funktionen nahtlos integriert und mögliche Risiken im Hinblick auf die Netzwerksicherheit minimiert werden können

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 Chandra Misra, 2009-03-02 Overview and Goals Wireless communication technologies are undergoing rapid advancements
 The past few years have experienced a steep growth in research in the area of wireless ad hoc networks The attractiveness of
 ad hoc networks in general is attributed to their characteristics features such as ability for infrastructure less setup minimal
 or no reliance on network planning and the ability of the nodes to self organize and self configure without the involvement of
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 they hold great promises for our future there are several challenges that need to be addressed Some of the well known
 challenges are attributed to issues relating to scalability quality of service energy efficiency and security **Lab Manual for**
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Contemporary Applications of Mobile Computing in Healthcare Settings Rajkumar, R., 2018-05-19 The use of mobile devices in medical care settings and by wellness professionals has influenced and changed many aspects of clinical practice Mobile devices have become ubiquitous in these settings leading to rapid growth in the development of medical apps Contemporary Applications of Mobile Computing in Healthcare Settings is a critical scholarly resource that explores the benefits of using mobile devices and apps in the medical field and examines the shortcomings in the validation practices regarding these technologies Featuring coverage on a wide range of topics such as smart healthcare patient surveillance and body fitness monitoring this book is geared toward academicians nurses medical professionals practitioners and students seeking current research on the quality and safety of the apps currently available for use by medical care professionals

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