

MICROWAVE ENGINEERING

Important Questions

UNIT I

1. Show that TM_{01} and TM_{10} modes does not exist in a rectangular waveguide.
2. A rectangular wave guide with dimension of 8×4 cm operates in the TM_{11} mode at 10 GHz. Determine the characteristic wave impedance. Derive the characteristic wave impedance of TE_{mn} modes in a rectangular wave.
3. Guide and obtain the relation b/w the guided wave length and characteristic impedance.
4. An air filled rectangular wave guide of inside dimensions 3×2 cm operates in the Dominant TE_{10} mode (i) find cutoff frequency f_c (ii) phase velocity of wave at a Frequency of 3.5GHz (iii) guided wave length at the same frequency.
5. the method of designating the modes of transmission in rectangular wave Guides. What is dominant mode and why it is most often used in wave guides.
6. Define group velocity and phase velocity of a rectangular wave guide
7. Derive the expression for cutoff frequency, phase constant phase velocity, group velocity and wave impedance in rectangular wave guide.

UNIT II

1. What is a cavity resonator? Discuss the applications of cavity resonator.
2. Why is a micro strip line referred to as open strip line?
3. What are the advantages of micro strip lines?
4. Does micro strip line support TEM modes? Justify the answer.
5. the expression for resonant frequency of a rectangular cavity resonator.
6. is the significance of Q in resonant circuits? Derive a general expression Q for a series resonant circuit what happens to Q when circuit is loaded.
7. the working principle of directional coupler and derive the expression for directivity and coupling coefficient.
8. Write short notes on circulator.
9. short notes on the following : (a) Directional coupler (b) Magic Tee (c) H-Plane Tee
10. : (a) Wave guide phase shifter b) Flap attenuator.

UNIT III:

1. Explain the characteristics of S matrix and derive the S matrix of E plane Tee.
 2. Write short notes on Gyrator.
 3. What is an Isolator? What is significance of it and its applications in micro wave Circuits?
 4. Write short notes on wave guide discontinuities.
 5. Derive the S matrix of 3 port circulators
 6. What is a directional coupler? Derive the S matrix of a 4-port directional coupler.
 7. Derive the S matrix of a magic Tee
 8. Explain the working of Reflex klystron with neat Applegate diagram.
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Microwave Lab Manual For Ece

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Microwave Lab Manual For Ece:

Basic Microwave Techniques and Laboratory Manual M. L. Sisodia, G. S. Raghuvanshi, 1987 **Microwave Engineering Laboratory Manual** James Wigle, 2012-04-25 This text intends to supplement Dr Wigle's University of Colorado at Colorado Springs Microwave Measurements Laboratory ECE 4150 and ECE 5150 The content is written for undergraduate and graduate courses in applied microwave engineering and laboratory measurements The intent is not to replace textbooks describing electromagnetics field theory but focus upon real world applied applications experiments and measurements Therefore minimal theory will be provided within verbal course content This material is designed for students having successfully completed two undergraduate courses in electromagnetic field theory The course should expose students to equipment and techniques used in microwave experiments as well as the design of microwave circuits and microwave experiments Suitable for basic laboratory courses in electromagnetics Rules of thumb practical info Essential electromagnetic basics to perform experiments Microwave component parameters Decibel math **Energy Research Abstracts**, 1991-10 **Microwave and Radar Engineering with Lab Manual** Vinith Chauhan, **Microwave, Radar & RF Engineering** Prakash Kumar Chaturvedi, 2018-06-20 This is a textbook for upper undergraduate and graduate courses on microwave engineering written in a student friendly manner with many diagrams and illustrations It works towards developing a foundation for further study and research in the field The book begins with a brief history of microwaves and introduction to core concepts of EM waves and wave guides It covers equipment and concepts involved in the study and measurement of microwaves The book also discusses microwave propagation in space microwave antennae and all aspects of RADAR The book provides core pedagogy with chapter objectives summaries solved examples and end of chapter exercises The book also includes a bonus chapter which serves as a lab manual with 15 simple experiments detailed with proper circuits precautions sample readings and quiz viva questions for each experiment This book will be useful to instructors and students alike *Manual of Regulations and Procedures for Federal Radio Frequency Management* United States. National Telecommunications and Information Administration, 2003 **Microwave Techniques and Laboratory Manual** M. L. Sisodia, G. S. Raghuvanshi, 1988-03-21 Provides basic theory and useful laboratory experience in microwave techniques and measurements Summarizes clearly the basic facts and theory of microwave electronics For each experiment a list of equipment and an experimental procedure is given Features a guide to the analysis of data and criticism a list of references follows each chapter **Lab Manual**, 2022-12-28 This Book contains the manuals for Microwave Engineering Laboratory and Mobile Communication System Laboratory The purpose of laboratory activities is to familiarize students with setting up microwave benches and working with rectangular waveguides also to identify distinct microwave components properties and measure wave parameters including impedance frequency wavelength and power After finishing this lab course students will be able to use microwave equipment comprehend microwave measurements and examine the properties of microwave

components The goals of the Mobile Communication System Laboratory are to comprehend the interdependence of cellular system design parameters investigate orthogonality conditions for CDMA systems classify different types of propagation models and analyse the link budget and comprehend the working principles of OFDM MIMO and cognitive radio Outcomes will be able to demonstrate the effect of cellular system design parameters on system capacity and quality of service compare and contrast trunking radio systems examine the effect of small scale fading parameters on radio channel performance and describe the features of OFDM MIMO and cognitive radio

Scientific and Technical Aerospace Reports, 1995

Optical and Microwave Laboratory (Lab Manual) Na Vikraman, 2020-06-22 This book has been written for BE B Tech students of All University with latest syllabus for ECE EEE CSE IT Bio Medical Mech Civil Departments also it is very useful for Diploma Arts Science Students The basic aim of this book is to provide a basic knowledge in Optical and Microwave Laboratory Program for engineering students of degree diploma AMIE courses and a useful reference for these preparing for competitive examinations All Experiments have excellent output results All the concepts are explained in a simple clear and complete manner to achieve progressive learning Each Programs is well supported with the necessary illustration practical output explanations

A Laboratory Manual for Microwave Electronics Massachusetts Institute of Technology. Department of Electrical Engineering. Communications Laboratory, 1950

Proceedings American Society for Engineering Education. Conference, 1994

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

Remote Sensing Floyd F. Sabins, Jr., James M. Ellis, 2020-04-01 Remote sensing has undergone profound changes over the past two decades as GPS GIS and sensor advances have significantly expanded the user community and availability of images New tools such as automation cloud based services drones and artificial intelligence continue to expand and enhance the discipline Along with comprehensive coverage and clarity Sabins and Ellis establish a solid foundation for the insightful use of remote sensing with an emphasis on principles and a focus on sensor technology and image acquisition The Fourth Edition presents a valuable discussion of the growing and permeating use of technologies such as drones and manned aircraft imaging DEMs and lidar The authors explain the scientific and societal impacts of remote sensing review digital image processing and GIS provide case histories from areas around the globe and describe practical applications of remote sensing to the environment renewable and nonrenewable resources land use land cover natural hazards and climate change Remote Sensing Digital Database includes 27 examples of satellite and airborne imagery that can be used to jumpstart labs and class projects The database includes descriptions georeferenced images DEMs maps and metadata Users can display process and interpret images with open source and commercial image processing and GIS software Flexible revealing and instructive the Digital

Image Processing Lab Manual provides 12 step by step exercises on the following topics an introduction to ENVI Landsat multispectral processing image processing band ratios and principal components georeferencing DEMs and lidar IHS and image sharpening unsupervised classification supervised classification hyperspectral and change detection and radar Introductory and instructional videos describe and guide users on ways to access and utilize the Remote Sensing Digital Database and the Digital Image Processing Lab Manual Answer Keys are available for instructors for questions in the text as well as the Digital Image Processing Lab Manual Government Reports Announcements & Index ,1995 **Thomas Register of American Manufacturers** ,2002 This basic source for identification of U S manufacturers is arranged by product in a large multi volume set Includes Products services Company profiles and Catalog file Thomas Register of American Manufacturers and Thomas Register Catalog File ,2002 Vols for 1970 71 includes manufacturers catalogs **Electronic Design** ,1972 **Commerce Business Daily** ,2000 *Technical Reports Awareness Circular : TRAC.* ,1989-12

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