

Galgotias College of Engineering & Technology

Accredited by NBA and Approved by AICTE (Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow)

LABORATORY MANUAL



DIGITAL COMMUNICATION LAB (BEC-651)

B. Tech (ECE), Semester- VI

Vision and Mission of the Department, PEOs, POs, PSOs

The vision of the Electronics & Communication department:

To be recognized as a centre of excellence in Electronics and Communication Engineering for the quality and global education, interdisciplinary research and innovation, to produce committed graduates who can apply knowledge and skills for the benefit of society.

The mission of the department:

- DM1: To provide quality education by providing state of the art facilities and solutions for global challenges.
- DM2: To provide a framework for promoting the industry-institution collaboration and empower the students in interdisciplinary research.
- DM3: To transform students into socially responsible, ethical and technically proficient engineers with innovative skills and usage of modern tools.
- DM4: To make the students corporate ready with spirit and necessary interpersonal skills.

Program Educational Objectives:

Digital Communication Techniques Lab Manual

Goody



Digital Communication Techniques Lab Manual:

Digital Communications With Lab Manual, 3/E Bhat K. N. Hari, 2010-09 **LAB PRIMER THROUGH MATLAB®**
NAVAS, K. A., JAYADEVAN, R., 2014-02-19 This systematically designed laboratory manual elucidates a number of techniques which help the students carry out various experiments in the field of digital signal processing digital image processing digital signal processor and digital communication through MATLAB in a single volume A step wise discussion of the programming procedure using MATLAB has been carried out in this book The numerous programming examples for each digital signal processing lab image processing lab signal processor lab and digital communication lab have also been included The book begins with an introductory chapter on MATLAB which will be very useful for a beginner The concepts are explained with the aid of screenshots Then it moves on to discuss the fundamental aspects in digital signal processing through MATLAB with a special emphasis given to the design of digital filters FIR and IIR Finally digital communication and image processing sections in the book help readers to understand the commonly used MATLAB functions At the end of this book some basic experiments using DSP trainer kit have also been included Audience This book is intended for the undergraduate students of electronics and communication engineering electronics and instrumentation engineering and instrumentation and control engineering for their laboratory courses in digital signal processing image processing and digital communication Key Features Includes about 115 different experiments Contains several figures to reinforce the understanding of the techniques discussed Gives systematic way of doing experiments such as Aim Theory Programs Sample inputs and outputs Viva voce questions and Examination questions *Respiratory Care Clinical Competency Lab Manual* Sandra T Hinski, 2013-12-10
Respiratory Care Clinical Competency Lab Manual provides the practical skills needed to apply classroom theory to clinical practice This text has the flexibility to be used in conjunction with all other respiratory care titles as well as in other disciplines that require competencies in respiratory therapy With detailed step by step procedures supporting procedural illustrations hands on lab exercises case studies and critical thinking questions this text helps you understand and apply theoretical knowledge by demonstrating specific skills Procedural competency evaluation forms help you to assess your progress and performance of specific procedures Detailed structured lab activities provide hands on opportunities to assess psychomotor and patient communication skills in a controlled environment Content correlation to NBRC combined CRT RRT exam content outlines helps you better prepare for credentialing exams Step by step procedural competencies prepare you for the RT competency areas established by the American Association of Respiratory Care AARC and meet the national practice standards for patient care Up to date coverage of current technology equipment Clinical Practice Guidelines CPGs CPR guidelines and CDC recommendations and mass casualty disaster management equips you with the most state of the art training for respiratory care Integration of case based questions within the lab activities helps you develop and promote your critical thinking abilities UNIQUE Coverage of polysomnography addresses clinical evaluation in this expanding specialty

area Over 200 images provide visual guidance on how to perform procedures UNIQUE Reality Check boxes arm you with practical knowledge on real world application of various procedures UNIQUE Tip boxes supply you with helpful pointers for the clinical arena Glossary of terms offers quick reference to terms presented in the text *Digital Experiments* David Buchla,1990 Digital Fundamentals Thomas L. Floyd,1990 Digital Electronics Through Project Analysis Ronald A. Reis,1991 An introductory text to digital circuits for beginning electronics students which provides coverage of basic digital concepts and includes 46 actual digital projects that illustrate concrete applications Coverage encompasses digital combinational and sequential logic circuits Digital Experiments Emphasizing Troubleshooting Jerry V. Cox,1990

Essential Mathematics for Electronics Technicians Fred Monaco,1991 Core text for the introductory mathematics course for beginning electronics technology students Program Interfacing 8086 8088 Goody,1992 **Introductory Circuit Analysis** Robert L. Boylestad,1990-02 **Introduction to Wireless Digital Communication** Robert W. Heath Jr.,2017-04-04 The Accessible Guide to Modern Wireless Communication for Undergraduates Graduates and Practicing Electrical Engineers Wireless communication is a critical discipline of electrical engineering and computer science yet the concepts have remained elusive for students who are not specialists in the area This text makes digital communication and receiver algorithms for wireless communication broadly accessible to undergraduates graduates and practicing electrical engineers Notably the book builds on a signal processing foundation and does not require prior courses on analog or digital communication Introduction to Wireless Digital Communication establishes the principles of communication from a digital signal processing perspective including key mathematical background transmitter and receiver signal processing algorithms channel models and generalizations to multiple antennas Robert Heath's less is more approach focuses on typical solutions to common problems in wireless engineering Heath presents digital communication fundamentals from a signal processing perspective focusing on the complex pulse amplitude modulation approach used in most commercial wireless systems He describes specific receiver algorithms for implementing wireless communication links including synchronization carrier frequency offset estimation channel estimation and equalization While most concepts are presented for systems with single transmit and receive antennas Heath concludes by extending those concepts to contemporary MIMO systems To promote learning each chapter includes previews bullet point summaries examples and numerous homework problems to help readers test their knowledge Basics of wireless communication applications history and the central role of signal processing Digital communication essentials components channels distortion coding decoding encryption and modulation demodulation Signal processing linear time invariant systems probability random processes Fourier transforms derivation of complex baseband signal representation and equivalent channels and multi rate signal processing Least squared estimation techniques that build on the linear algebra typically taught to electrical engineering undergraduates Complex pulse amplitude modulation symbol mapping constellations signal bandwidth and noise Synchronization including symbol frame and carrier frequency

offset Frequency selective channel estimation and equalization MIMO techniques using multiple transmit and or receive antennas including SIMO MISO and MIMO OFDM Register your product at informit.com register for convenient access to downloads updates and corrections as they become available **Engineering Education** ,1991 **Electronic Devices and Circuits** Theodore F. Bogart,1990 Very Good No Highlights or Markup all pages are intact *Basic Technical Drawing* Phillip Sell,1991 **16/32 Bit Microprocessors** Wunnava V. Subbarao,1991 An integrated practical introduction to 16 bit and 32 bit microprocessors using the Motorola 68000 family as examples for electronics engineering computer science and technology students *Principles of Biomedical Instrumentation and Measurement* Richard Aston,1990 A contemporary new text for preparing students to work with the complex patient care equipment found in today s modern hospitals and clinics It begins by presenting fundamental prerequisite concepts of electronic circuit theory medical equipment history and physiological transducers as well as a systematic approach to troubleshooting The text then goes on to offer individual chapters on common and speciality medical equipment both diagnostic and therapeutic Self contained these chapters can be used in any order to fit the instructor s class goals and syllabus **The AutoCAD Book** James M. Kirkpatrick,1992

Experiments in Electronic Devices Berlin,Howard M. Berlin,1991-09 **Digital Logic and Computer Design** Thomas Richard McCalla,1992 **Electronic Communications** Robert J. Schoenbeck,1992 A very practical comprehensive introduction to all currently used forms of modulation and recovery of electronic signals with an emphasis on their applications

Decoding **Digital Communication Techniques Lab Manual**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Digital Communication Techniques Lab Manual**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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