

Analog Communication Viva Questions :-

Analog Communication is a data transmitting technique in which information signal is transmitted in analog nature. This always utilizes continuous signals to transmit data which may obtained from audio, image, video etc. An Analog signal is a variable signal continuous in both time and amplitude. To produce modulated signal inside the transmitter in Analog Communication, analog signal modulates the high carrier frequency. Then this modulated signal is transmitted with the help of antenna. All AM, FM audio transmission and T.V. transmission are the most preferable examples of analog communication. Analog communication is very important topic for the students preparing for GATE Exam(Electronics) Following questions will help to learn the basics concepts of analog communication.

1. Define Pam And Write Down Its Drawbacks?

Pulse Amplitude Modulation is the process by which the amplitude of the regularly spaced pulses varies according to the the amplitude of the modulating signal.

The drawbacks are:

- Since the amplitude of the pulses varies therefore the peak power of the modulating s/g is much greater.
- The bandwidth required for transmitting is greater since the amplitude varies.

2. How Can Be Aliasing Be Avoided?

Aliasing can be avoided if:

1. Sampling frequency must be greater than the frequency of the modulating signal.
2. The frequency should be band limited to maximum frequency of the signal(fm) Htz.
3. If prealias filter is used.



Analog Communication Lab Manual And Viva Questions

Hwei P. Hsu



Analog Communication Lab Manual And Viva Questions:

ELECTRONICS LAB MANUAL (VOLUME 2) NAVAS, K. A.,2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories This book covers 118 experiments for linear analog integrated circuits lab communication engineering lab power electronics lab microwave lab and optical communication lab The experiments described in this book enable the students to learn Various analog integrated circuits and their functions Analog and digital communication techniques Power electronics circuits and their functions Microwave equipment and components Optical communication devices This book is intended for the B Tech students of Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics It is designed not only for engineering students but can also be used by BSc MSc Physics and Diploma students **KEY FEATURES** Contains aim components and equipment required theory circuit diagram pin outs of active devices design tables graphs alternate circuits and troubleshooting techniques for each experiment Includes viva voce and examination questions with their answers Provides exposure on various devices **TARGET AUDIENCE** B Tech Electronics and Communication Engineering Electrical and Electronics Engineering Biomedical Electronics Instrumentation and Control Computer Science and Applied Electronics BSc MSc Physics Diploma Engineering **Cumulated Index Medicus** ,1981 **Forthcoming Books** Rose Army,1994-02

Bibliography of Scientific and Industrial Reports ,1968-04 **Canadian Books in Print** ,2000 **Analog Communications, Volumes 1, 2 and 3 : Instructor's Guide** Lab-Volt (Québec) Ltd,1987 *Analog Communications* Kasturi Vasudevan,2020-08-14 This textbook covers the fundamental concepts of analog communications with a Q A approach It is a comprehensive compilation of numerical problems and solutions covering all the topics in analog communications Richly illustrated with figures this book covers the important topics of signals and systems random variables and random processes amplitude modulation frequency modulation pulse code modulation and noise in analog modulation It has numerical questions and their solutions clearing the concepts of Fourier transform Hilbert transform modulation synchronization signal to noise ratio analysis and many more All the solutions have step by step approach for easy understanding This book will be of great interest to the students of electronics and electrical communications engineering

Analog communication lab + LIC lab K. Chandrashekhar,2012 **Analog Communications** ,2019 **Analog Communication** Rao,2011 Analog and Digital Communication Lab Jai Agrawal,2015-04-09 This lab book is intended for the Junior senior engineering Technology students This book should accompany regular textbook in analog and digital communication The lab exercises use MATLAB SIMULINK Arduino Uno and employs hardware circuits Analog Communications: Instrumentation Lab-Volt ltée,1984 **Analog Communication** ,2010 **ANALOG COMMUNICATION**

TOMAR, GEETAM SINGH ,BAGWARI, ASHISH ,2016-02-25 This book carries a holistic approach on the analog communication with all the basic concepts pertaining to the subject described in it The text provides an incisive insight into the subject via simple elegant and explicit presentation Organised in ten chapters the book dexterously assimilates the various terms and techniques used in analog communication to enhance a broader understanding of the concepts and their applications Commencing with the basic introduction the book goes on to provide description on analog amplitude modulation single sideband modulation analog angle modulation pulse modulation digital transmission of analog signals and multiplexing Finally it discusses about noise random signal and processes information theory and coding and communication detectors and filters The background of each topic in the book is prepared sensibly by providing suitable illustrations numerical examples detailed explanation of each step given thereby making the understanding of complicated derivations easier This well structured book is specifically written for the undergraduate students of electronics and communication engineering and postgraduate students of electronics

PSpice for Analog Communications Engineering Paul Tobin,2007-06-01 In PSpice for Analog Communications Engineering we simulate the difficult principles of analog modulation using the superb free simulation software Cadence Orcad PSpice V10 5 While use is made of analog behavioral model parts ABM we use actual circuitry in most of the simulation circuits For example we use the 4 quadrant multiplier IC AD633 as a modulator and import real speech as the modulating source and look at the trapezoidal method for measuring the modulation index Modulation is the process of relocating signals to different parts of the radio frequency spectrum by modifying certain parameters of the carrier in accordance with the modulating information signals In amplitude modulation the modulating source changes the carrier amplitude but in frequency modulation it causes the carrier frequency to change and in phase modulation it s the carrier phase The digital equivalent of these modulation techniques are examined in PSpice for Digital communications Engineering where we examine QAM FSK PSK and variants We examine a range of oscillators and plot Nyquist diagrams showing themarginal stability of these systems The superhetrodyne principle the backbone of modern receivers is simulated using discrete components followed by simulating complete AM and FM receivers In this exercise we examine the problems ofmatching individual stages and the use of double tuned RF circuits to accommodate the large FM signal bandwidth

Analog and Digital Communication Engineering Lab Manual Volume-1 Bindu Sebastian,Adarsh K. S.,Vinod J. Thomas,2016-02-12

Schaum's Outline of Analog and Digital Communications Hwei P. Hsu,2012-09-18

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Table of Contents Analog Communication Lab Manual And Viva Questions

1. Understanding the eBook Analog Communication Lab Manual And Viva Questions
 - The Rise of Digital Reading Analog Communication Lab Manual And Viva Questions
 - Advantages of eBooks Over Traditional Books
2. Identifying Analog Communication Lab Manual And Viva Questions
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Analog Communication Lab Manual And Viva Questions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analog Communication Lab Manual And Viva Questions

- Personalized Recommendations
- Analog Communication Lab Manual And Viva Questions User Reviews and Ratings
- Analog Communication Lab Manual And Viva Questions and Bestseller Lists
- 5. Accessing Analog Communication Lab Manual And Viva Questions Free and Paid eBooks
 - Analog Communication Lab Manual And Viva Questions Public Domain eBooks
 - Analog Communication Lab Manual And Viva Questions eBook Subscription Services
 - Analog Communication Lab Manual And Viva Questions Budget-Friendly Options
- 6. Navigating Analog Communication Lab Manual And Viva Questions eBook Formats
 - ePub, PDF, MOBI, and More
 - Analog Communication Lab Manual And Viva Questions Compatibility with Devices
 - Analog Communication Lab Manual And Viva Questions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analog Communication Lab Manual And Viva Questions
 - Highlighting and Note-Taking Analog Communication Lab Manual And Viva Questions
 - Interactive Elements Analog Communication Lab Manual And Viva Questions
- 8. Staying Engaged with Analog Communication Lab Manual And Viva Questions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analog Communication Lab Manual And Viva Questions
- 9. Balancing eBooks and Physical Books Analog Communication Lab Manual And Viva Questions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analog Communication Lab Manual And Viva Questions
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Analog Communication Lab Manual And Viva Questions
 - Setting Reading Goals Analog Communication Lab Manual And Viva Questions
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Analog Communication Lab Manual And Viva Questions

- Fact-Checking eBook Content of Analog Communication Lab Manual And Viva Questions
- 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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