

Viva Questions for Analog Communication Lab.

1. Draw the block diagram of a communication system.
2. Distinguish between passband and baseband transmission. What is the drawback of baseband transmission?
3. Define modulation.
4. Distinguish between continuous wave modulation and pulse modulation.
5. What is the need for modulation?
6. Define simplex and duplex communication. Give examples for each.
7. Define AM, FM and PM.
8. Define modulation Index of AM & FM.
9. What is the B.W for AM and FM.
10. What are the components in an AM wave?
11. Draw the time domain, frequency domain and Phasor representation of an AM wave.
12. Define the 3 various degrees of modulation.
13. Define *rectifier distortion* and *diagonal/clipping*.
14. What do you meant by single tone modulation?
15. Derive the instantaneous voltage expression of an AM wave.
16. Derive the power relationship in AM.
17. Derive the current relationship in AM.
18. In multi-tone modulation, how you calculate the net modulation index?
19. Derive the efficiency of DSBFC-AM.
20. Calculate the % of power saving in SSB when compared with conventional AM.
21. Calculate the % of power saving for DSBSC signal for the percentage of modulation of 50%.
22. Differentiate between *high level* and *low level* AM modulation.
23. Define *frequency deviation* and *deviation sensitivity*.
24. How can you generate FM using phase modulator?
25. In commercial broadcasting, what is the max freq deviation?

Analog Communication Lab Manual And Viva Questions

Jai Agrawal

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 Arny, 1994-02

Bibliography of Scientific and Industrial Reports, 1968-04 **Canadian Books in Print**, 2000 *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 Communications, Volumes 1, 2 and 3 : Instructor's Guide Lab-Volt (Québec) Ltd, 1987 **Analog communication lab + LIC lab** K. Chandrashekhar, 2012 **ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION** NAVAS, K. A., 2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments. It will also be useful to the undergraduate students of electrical science branches of engineering and applied science. This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop. Further it covers experiments for basic electronics.

lab electronic circuits lab and digital electronics lab A separate chapter is devoted to the simulation of electronics experiments using PSpice Each experiment has aim components and equipment required theory circuit diagram tables graphs alternate circuits answered questions and troubleshooting techniques Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students The purpose of the experiments described here is to acquaint the students with Analog and digital devices Design of circuits Instruments and procedures for electronic test and measurement Analog Communications ,2019 Analog Communication RS Sedha, Analog Communication **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 System Abhishek Yadav,2008 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 the marginal 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 of matching 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 **Analog Communication Systems** Dr Sanjay Sharma, 2020-02-27 The book Analog Communication Systems has been designed for the undergraduate students as well as the faculty of electrical electronics and communications engineering It provides an exhaustive coverage on the fundamental concepts and recent developments in Analog Communication Systems The book follows a bottom up approach by building up the basic concepts of conventional modulation systems initially and then describing the latest trends in communications towards the end It covers after a brief introduction on the concepts of communication theory chapters on Amplitude modulation Angle modulation Pulse modulation and also discusses other relevant topics The book also provides a separate chapter on Noise highlights the different type of Noise encountered in Communication systems and their effect on various types of Modulation Written in a lucid manner the book includes a large number of circuit diagrams worked out examples important formulae and questions for practice thereby enabling the students to have a sound grasp of the concepts presented in the book and their applications

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