

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 Electronics Lab Viva Questions With Answers

RJ Alexander



Analog Electronics Lab Viva Questions With Answers:

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 Canadian Books in Print ,2000 Worked Examples in Analog Electronics Peter H. Mowe,1995 Analog & Digital Electronics Lab Mr. Rohit Manglik,2024-07-28 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 **Analog Electronics** Ian Hickman,1999-06-10 Analog Electronics is a vital book for all electronics designers to have to hand it will answer nagging questions about core analog theory and design principles as well as offering practical design ideas The second edition of this popular text has been enhanced with concise design implementations with many of the circuits taken from Ian Hickman s magazine articles Although not a traditional textbook Analog Electronics is also an ideal course text for students at HNC HND and degree level The contents have been carefully matched to provide full coverage of the appropriate units in the new BTEC Higher National Engineering scheme from Edexcel Ian Hickman is looked to by thousands of circuit designers for his innovative design ideas and clear explanations of the fundamentals of analog circuit design This book is a distillation of Hickman s design insights introducing all the main areas of analog electronics The professional text for analog electronics Includes numerous practical circuit ideas

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Experiments in Analog Electronics Wayne Hope,1995-01-01 [Analog Electronics for Scientific Application](#) Dennis Barnaal,1989-01-01 Nicely balanced and workable this introductory book emphasizes practical application of instrumentation offers clear explanations with a minimum of mathematical analysis includes a large number of review exercises and real world problems in every chapter and shows many examples that are worked out clearly marked and set off from the text Topics are covered in an easy to read format and explanations are lucid

Laboratory Experiments and PSPICE Simulations in Analog Electronics L. K. Maheshwari,2006 **Introduction to Analogue Electronics** B. Hart,1996-12-24 This new text takes the reader from the very basics of analogue electronics to an introduction of state of the art techniques used in the field It is aimed at all engineering or science students who wish to study the subject from its first

principles as well as serving as a guide to more advanced topics for readers already familiar with the subject. Attention throughout is focused on measurable terminal characteristics of devices, the way in which these give rise to equivalent circuits and methods of extracting parameter values for them from manufacturers' data sheet specifications. In the practical application of these equivalent circuits, step by step analysis and design procedures are given where appropriate. Throughout the book, emphasis is given to the pictorial representation of information and extensive use is made of mechanical analogues. This combined with the self assessment questions, copious exercises and worked examples result in an accessible introduction to a key area of electronics that even those with the most limited prior experience will find invaluable in their studies.

ANALOG ELECTRONICS MAHESHWARI, L. K., ANAND, M. M. S., 2009-01-13. This text offers a comprehensive introduction to a wide relevant array of topics in analog electronics. It is intended for students pursuing courses in electrical electronics, computer and related engineering disciplines. Beginning with a review of linear circuit theory and basic electronic devices, the text moves on to present a detailed practical understanding of many analog integrated circuits. The most commonly used analog IC to build practical circuits is the operational amplifier or op amp. Its characteristics, basic configurations and applications in the linear and nonlinear circuits are explained. Modern electronic systems employ signal generators, analog filters, voltage regulators, power amplifiers, high frequency amplifiers and data converters. Commencing with the theory, the design of these building blocks is thoroughly covered using integrated circuits. The development of microelectronics technology has led to a parallel growth in the field of Micro electromechanical Systems (MEMS) and Nano electromechanical Systems (NEMS). The IC sensors for different energy forms with their applications in MEMS components are introduced in the concluding chapter. Several computer based simulations of electronic circuits using PSPICE are presented in each chapter. These examples together with an introduction to PSPICE in an Appendix provide a thorough coverage of this simulation tool that fully integrates with the material of each chapter. The end of chapter problems allow students to test their comprehension of key concepts. The answers to these problems are also given. **Cool Circuits** Marc

E. Herniter, 2006. This book attempts to answer the questions: Why are we doing this and What is this used for when applied to analog electronics. Since most people do not see where or how analog electronics fit into their lives, this book discusses several demonstrations and design examples with the express purpose of showing some of the cool things that can be done with analog electronics. This book generates engaging real world examples that show readers where analog electronics fit into the overall engineering picture, raises their interest in electronics and illustrates some of the basic principles. Covers circuit design from several aspects: theory, simulation, practical considerations and lab verification. Design examples include Stun Gun, Magic Feedback Audio Amplifier, Infrared Bug Sucker, Birthday Candle Blower, Klingon Pain Stick and Electronic Hotdog Cooker. For non technical users of electronics. **Fundamentals of Analog Circuits** Thomas L. Floyd, David Buchla, 2002. This comprehensive book meets the content requirements of most technical schools without hampering the

reader with excessive detail A strong emphasis on troubleshooting will help prepare the reader for work in the industry This book introduces discrete device circuits and then delves more deeply into analog integrated circuits a topic that has more importance for today s technicians For technician level courses in analog circuits and those who are pursuing a career in electrical technology

Analog Electronics GATE, PSUs and ES Examination Karna, Satish K., The book *Analog Electronics* GATE PSUs and ES Examination has been designed after much consultation with the students preparing for these competitive examinations A must buy for students preparing for GATE PSUs and ES examinations the book will be a good resource for students of BE BTech programmes in the electronics engineering electrical engineering electrical and electronics engineering and instrumentation engineering branches too It will also be useful for the undergraduate students of sciences

Analog Electronics Ian Hickman,2013-10-02 *Analog Electronics* is an 11 chapter text that covers the significant advances in several aspects of analog electronics with emphasis on how analog circuits work The opening chapters consider the passive and active components of analog circuits The succeeding chapters deal with the amplification of audio frequency electrical signals and their transformation into sound waves as well as the passive signal processing and transmission The discussion then shifts to the active signal processing in frequency and time domain Other chapters examine the mechanism of radio frequency circuits signal sources and power supplies The closing chapter tackles the commercial and professional application of electronics This book will prove useful to engineers technicians and students

Troubleshooting Analog Circuits Robert A. Pease,2013-10-22 *Troubleshooting Analog Circuits* is a guidebook for solving product or process related problems in analog circuits The book also provides advice in selecting equipment preventing problems and general tips The coverage of the book includes the philosophy of troubleshooting the modes of failure of various components and preventive measures The text also deals with the active components of analog circuits including diodes and rectifiers optically coupled devices solar cells and batteries The book will be of great use to both students and practitioners of electronics engineering Other professionals dealing with electronics will also benefit from the text such as electric technicians

Introduction to Analog and Digital Circuits Lab Manual Brian DEAN,2018-08-13

Analog Electronics A.K. Maini, Varsha Agrawal, *Analog Electronics* is a complete and yet concise textbook on Analog Electronics covering Semiconductor Devices and associated circuits Major topics covered in the book include Semiconductor device fundamental Small signal and Large signal analysis of amplifiers Low and High frequency response of amplifiers Sinusoidal and Non sinusoidal oscillators feedback amplifiers Operational amplifiers and application circuits D A and A D converters and finally Switched capacitor circuits the contents are strictly as per the syllabus as prescribed by AICTE the book is replete with Solved problems and Self evaluation exercises including Multiple choice question with answers

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