

Code No: 133AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year I Semester Examinations, November/December - 2018

ANALOG ELECTRONICS

(Common to ECE, ETM)

Time: 3 Hours

Max. Marks: 75

Notes: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

PART- A

(25 Marks)

- 1.a) What are the types of distortion in amplifiers. [2]
- b) Classify the amplifiers according to the method of coupling. [3]
- c) Why the h parameter model is not suitable to analyze transistor at high frequencies. [2]
- d) What are the elements in the Hybrid π model? [3]
- e) What is cascode amplifier? [2]
- f) State the advantages and disadvantages of the source follower. [3]
- g) What is meant by positive and negative feedback? [2]
- h) State the Barkhausen criterion for oscillations. [3]
- i) What are the requirements of a tuned amplifier? [2]
- j) Give the definition of power amplifier. Also list the types in it based on location of Q point. [3]

PART B

(50 Marks)

2. Draw the h-parameter equivalent circuit for a typical common emitter amplifier and derive expression for A_v , A_{v_s} , R_i and R_o . [10]
- OR
3. Draw simplified h parameter equivalent circuit and calculate A_v , A_{v_s} , A_{v_o} , R_i and R_o for the cascode circuit shown in figure 1. Assume that transistors are identical with $h_{be}=10$, $h_{re}=2 \text{ K}\Omega$, $h_{oe}=h_{oc}=0$. [10]

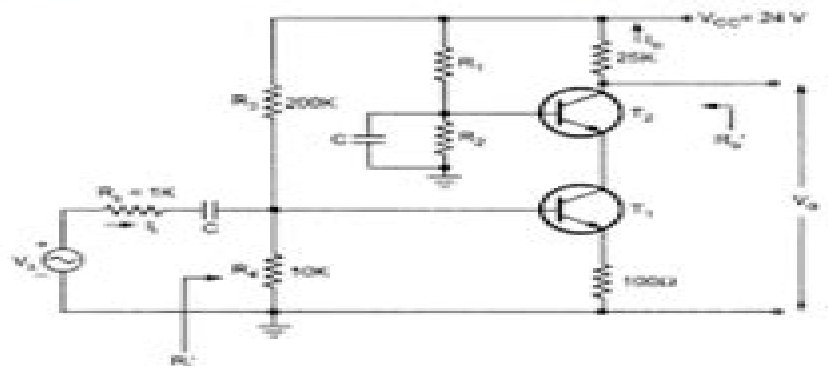


Figure: 1

Analog Electronics Diploma Question Papers

Roman Wölfel



Analog Electronics Diploma Question Papers:

Solved Papers (2023-24 RRB ALP ITI Electrical Trade) YCT Expert Team , 2023 24 RRB ALP ITI Electrical Trade
Solved Papers A FIRST COURSE IN ELECTRONICS KHAN, ANWAR A. ,DEY, KANCHAN K.,2006-01-01 This book provides a comprehensive introduction to the fundamental principles of modern electronic devices and circuits It is suitable for adoption as the textbook for the first course in electronics found in most curricula for undergraduate physics and electronic science students It also covers several topics of electronics being taught at the postgraduate first year level in physics Besides the students pursuing degree or diploma courses in electrical electronics and computer engineering will find this textbook useful and self contained The text provides a thorough and rigorous explanation of characteristics and parameters of the most important semiconductor devices in general use today It explains the underlying principles of how different circuits work providing valuable insights into analysis of circuits so essential for solving design problems Coverage includes all the basic aspects of analog and digital electronics plus several important topics such as current mirrors and their applications amplifiers with active load composite devices and their equivalent models and applications op amp mathematical and circuit modelling and logic circuits analysis Key Features Emphasizes underlying physics and operational characteristics of semiconductor devices Numerous solved examples and review questions help the students develop an intuitive grasp of the theory Sufficient number of conventional and short answer type model questions included in each chapter acquaint the students with the type of questions generally asked in examinations 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 *2024-25 RRB Technician Grade-I*

Signal Basic Science & Engineering Chapter-wise Study Material and Question Bank YCT Expert Team , 2024 25 RRB Technician Grade I *Signal Basic Science Engineering Chapter wise Study Material and Question Bank* 496 795 2025-26 RRB Assistant Loco Pilot Stage-II ITI Trade Electrical Group Solved Papers YCT Expert Team , 2025 26 RRB Assistant Loco Pilot Stage II ITI Trade Electrical Group Solved Papers 480 995 E This book contains the previous year solved papers

Frontier Research on Digital Computers ...: Numerical analysis, and papers relating to Soviet computers ,1960

Advanced Information Technology in Education Khine Soe Thauung,2012-02-03 The volume includes a set of selected papers extended and revised from the 2011 International Conference on Computers and Advanced Technology in Education With the development of computers and advanced technology the human social activities are changing basically Education especially the education reforms in different countries has been experiencing the great help from the computers and advanced technology Generally speaking education is a field which needs more information while the computers advanced technology and internet are a good information provider Also with the aid of the computer and advanced technology persons can make the education an effective combination Therefore computers and advanced technology should be regarded as an important media in the modern education Volume *Advanced Information Technology in Education* is to provide a forum for researchers educators engineers and government officials involved in the general areas of computers and advanced technology in education to disseminate their latest research results and exchange views on the future research directions of these fields

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L'Association Internationale D'hydrologie Scientifique International Association of Scientific Hydrology,1969

Engineering ,1971 Electrical & Electronics Abstracts ,1988 *Proceedings of the IREE*. Institution of Radio and Electronics Engineers, Australia,1975 **Popular Electronics Including Electronics World ,1973** **Bulletin of the Institution of Engineers (India)**. Institution of Engineers (India),1988 **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis,Marquis Who's Who,2007-12 *The Advocate* ,2005-06-21 The Advocate is a lesbian gay bisexual transgender LGBT monthly newsmagazine Established in 1967 it is the oldest continuing LGBT publication in the United States **Conference Papers Index ,1987**

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