

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 $h_{fe}=10$, $h_{ie}=2\text{ K}\Omega$, $h_{re}=h_{oe}=0$. [10]

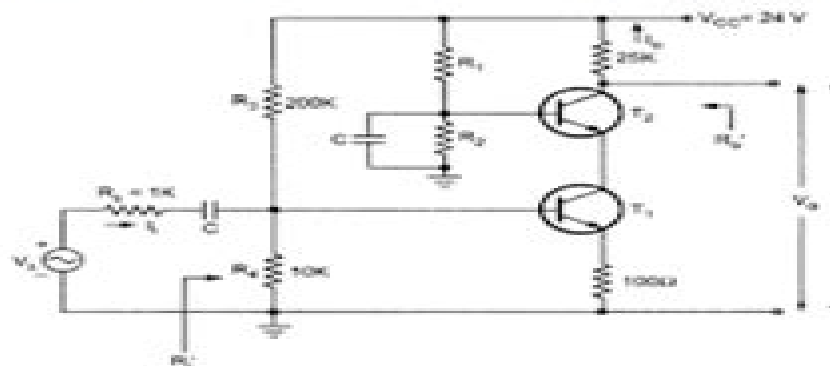


Figure: 1

Analog Electronics Diploma Question Papers

Peter H. Mowe



Analog Electronics Diploma Question 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 *Frontier Research on Digital Computers ...: Numerical analysis, and papers relating to Soviet computers* ,1960 Outcome-Based Science, Technology, Engineering, and Mathematics Education: Innovative Practices Yusof, Khairiyah Mohd,Azli, Naziha Ahmad,Kosnin, Azlina Mohd,Yusof, Sharifah Kamilah Syed,Yusof, Yudariah Mohammad,2012-06-30 This book provides insights into initiatives that enhance student learning and contribute to improving the quality of undergraduate STEM education Provided by publisher **Educational Yearbook** ,1972 Bulletin de L'Association Internationale D'hydrologie Scientifique International Association of Scientific Hydrology,1969

Engineering ,1971 *Bulletin of the Institution of Engineers (India)*. Institution of Engineers (India),1988 *Popular Electronics Including Electronics World* ,1973 *Electrical & Electronics Abstracts* ,1988 **Proceedings of the IREE**. Institution of Radio and Electronics Engineers, Australia,1975 **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis,Marquis Who's Who,2007-12 **Conference Papers Index** ,1987 **Worked Examples in Analog Electronics** Peter H. Mowe,1995 China World Bank,1993 The Republic of Korea s industrial policy has directed that nation s economy through nearly three decades of spectacular growth But the authors of this paper maintain that this policy is showing signs of being outmoded The time has come the authors argue for the Korean government to stop managing the economy s structural development and to redefine the responsibilities of business and government Under this proposed compact the allocation of resources would shift from the government to the private industrial and financial sectors The transformation of the government bureaucracy from an ad hoc policy role to one of a transparent and predictable regulator is a key to the success of this undertaking These new directions would present the government with enormous challenges Greater competitive discipline and regulatory oversight would be required While dealing with the complexities of the transition the government would have to maintain macroeconomic stability and the momentum of savings and investment For comparison the study examines the industrial economies of France Germany Japan and the United States which underwent similar shifts **Federal Times** ,1970-07 **Government Reports Announcements & Index** ,1993 Reprographics Quarterly ,1979 **Computer Education** ,1976

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Table of Contents Analog Electronics Diploma Question Papers

1. Understanding the eBook Analog Electronics Diploma Question Papers
 - The Rise of Digital Reading Analog Electronics Diploma Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Analog Electronics Diploma Question Papers
 - 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 Electronics Diploma Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analog Electronics Diploma Question Papers
 - Personalized Recommendations
 - Analog Electronics Diploma Question Papers User Reviews and Ratings
 - Analog Electronics Diploma Question Papers and Bestseller Lists
5. Accessing Analog Electronics Diploma Question Papers Free and Paid eBooks
 - Analog Electronics Diploma Question Papers Public Domain eBooks
 - Analog Electronics Diploma Question Papers eBook Subscription Services
 - Analog Electronics Diploma Question Papers Budget-Friendly Options
6. Navigating Analog Electronics Diploma Question Papers eBook Formats

- ePub, PDF, MOBI, and More
 - Analog Electronics Diploma Question Papers Compatibility with Devices
 - Analog Electronics Diploma Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analog Electronics Diploma Question Papers
 - Highlighting and Note-Taking Analog Electronics Diploma Question Papers
 - Interactive Elements Analog Electronics Diploma Question Papers
 8. Staying Engaged with Analog Electronics Diploma Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analog Electronics Diploma Question Papers
 9. Balancing eBooks and Physical Books Analog Electronics Diploma Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analog Electronics Diploma Question Papers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Analog Electronics Diploma Question Papers
 - Setting Reading Goals Analog Electronics Diploma Question Papers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Analog Electronics Diploma Question Papers
 - Fact-Checking eBook Content of Analog Electronics Diploma Question Papers
 - 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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