

~~Note: 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)

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

PART-B

(50 Marks)

- Draw the h-parameter equivalent circuit for a typical common emitter amplifier and derive expression for A_v , A_{v2} , R_o and R_{in} . [10]

OR

- Draw simplified h parameter equivalent circuit and calculate A_v , A_{v2} , R_o and R_{in} for the cascode circuit shown in figure 1. Assume that transistors are identical with $\beta_H=10$, $b_{ac}=2\text{ K}\Omega$, $b_{bc}=b_{ac}=0$. [10]

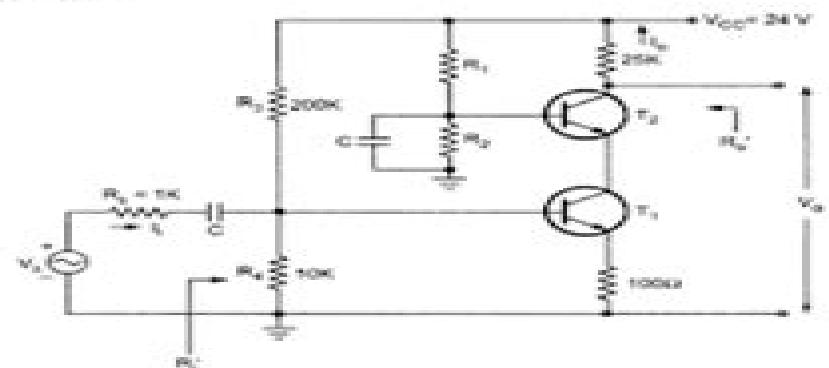


Figure: 1

Analog Electronics Diploma Question Papers

Peter H. Mowe

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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

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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

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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

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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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