

LABORATORY 5

FREQUENCY RESPONSE OF A BJT AMPLIFIER

OBJECTIVES

1. To determine quiescent point of a common emitter and common collector amplifiers and calculate the values of the resistors R_C , R_E , R_1 and R_2 .
2. To measure upper and lower cutoff frequencies of a common-emitter amplifier.
3. To simulate amplifier frequency response measurements using MicroCap software.
4. To study the frequency response of the common emitter (CE) and common collector (CC) BJT transistor amplifiers in the low to medium frequency range (50 Hz to 1 MHz).

INFORMATION

In this lab, two BJT amplifier configurations will be investigated: the common-emitter, and the common collector amplifier. Both amplifiers typically use a self-biasing scheme and have a relatively linear output.

1. Common-Emitter Amplifier

The common emitter amplifier in Figure 5.1 is characterized by high voltage (A_v) and current gain (A_i). The amplifier typically has a relatively high input resistance (1 - 10 K Ω) and a fairly high output resistance. Therefore it is generally used to drive medium to high resistance loads. The circuit for the common-emitter amplifier can be seen in Figure 5.1. It is typically used in applications where a small voltage signal needs to be amplified to a large voltage signal. Since the amplifier cannot drive low resistance loads, it is usually cascaded with a buffer that can act as a driver.

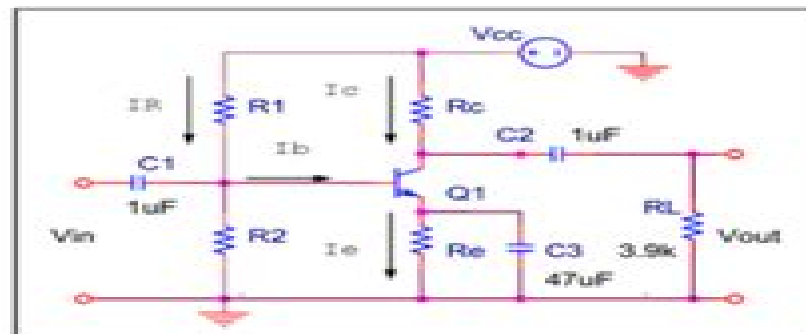


Figure 5.1. The common emitter amplifier

If Amplifier Lab Manual

L. K. Maheshwari, M. M. S. Anand



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Basic Television Paul B. Zbar, Peter W. Orne, 1978

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Table of Contents If Amplifier Lab Manual

1. Understanding the eBook If Amplifier Lab Manual
 - The Rise of Digital Reading If Amplifier Lab Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying If Amplifier Lab Manual
 - 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 If Amplifier Lab Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from If Amplifier Lab Manual
 - Personalized Recommendations

- If Amplifier Lab Manual User Reviews and Ratings
- If Amplifier Lab Manual and Bestseller Lists
- 5. Accessing If Amplifier Lab Manual Free and Paid eBooks
 - If Amplifier Lab Manual Public Domain eBooks
 - If Amplifier Lab Manual eBook Subscription Services
 - If Amplifier Lab Manual Budget-Friendly Options
- 6. Navigating If Amplifier Lab Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - If Amplifier Lab Manual Compatibility with Devices
 - If Amplifier Lab Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of If Amplifier Lab Manual
 - Highlighting and Note-Taking If Amplifier Lab Manual
 - Interactive Elements If Amplifier Lab Manual
- 8. Staying Engaged with If Amplifier Lab Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers If Amplifier Lab Manual
- 9. Balancing eBooks and Physical Books If Amplifier Lab Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection If Amplifier Lab Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine If Amplifier Lab Manual
 - Setting Reading Goals If Amplifier Lab Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of If Amplifier Lab Manual
 - Fact-Checking eBook Content of If Amplifier Lab Manual

- 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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