

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.

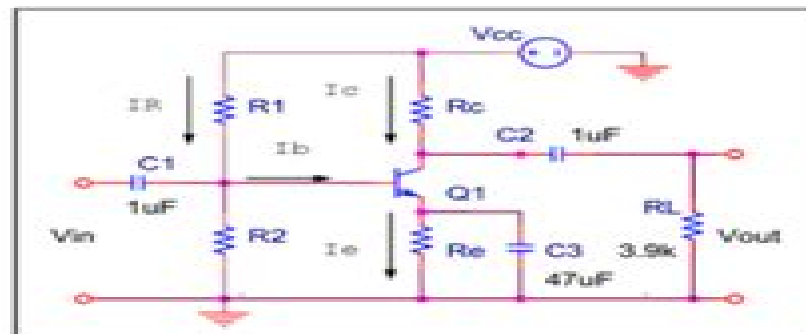


Figure 5.1. The common emitter amplifier

If Amplifier Lab Manual

NAVAS, K. A.



If Amplifier Lab Manual:

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 *Laboratory Manual for Introductory Electronics Experiments* L. K. Maheshwari, M. M. S. Anand, 1979 **Basic Microwave Techniques and Laboratory Manual** M. L. Sisodia, G. S. Raghuvanshi, 1987

Laboratory Manual for Pulse-Width Modulated DC-DC Power Converters Marian K. Kazimierczuk, Agasthya Ayachit, 2015-10-26 Designed to complement a range of power electronics study resources this unique lab manual helps students to gain a deep understanding of the operation modeling analysis design and performance of pulse width modulated PWM DC DC power converters Exercises focus on three essential areas of power electronics open loop power stages small signal modeling design of feedback loops and PWM DC DC converter control schemes and semiconductor devices such as silicon silicon carbide and gallium nitride Meeting the standards required by industrial employers the lab manual combines programming language with a simulation tool designed for proficiency in the theoretical and practical concepts Students and instructors can choose from an extensive list of topics involving simulations on MATLAB SABER or SPICE based platforms enabling readers to gain the most out of the prelab inlab and postlab activities The laboratory exercises have been taught and continuously improved for over 25 years by Marian K Kazimierczuk thanks to constructive student feedback and valuable suggestions on possible workroom improvements This up to date and informative teaching material is now available for the benefit of a wide audience **Key features** Includes complete designs to give students a quick overview of the converters their characteristics and fundamental analysis of operation Compatible with any programming tool MATLAB Mathematica or

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Mechanics of Materials Laboratory Course Ghatu Subhash,Shannon Ridgeway,2022-05-31 This book is designed to provide lecture notes theory and experimental design of major concepts typically taught in most Mechanics of Materials courses in a sophomore or junior level Mechanical or Civil Engineering curriculum Several essential concepts that engineers encounter in practice such as statistical data treatment uncertainty analysis and Monte Carlo simulations are incorporated into the experiments where applicable and will become integral to each laboratory assignment Use of common strain stress measurement techniques such as strain gages are emphasized Application of basic electrical circuits such as Wheatstone bridge for strain measurement and use of load cells accelerometers etc are employed in experiments Stress analysis under commonly applied loads such as axial loading compression and tension shear loading flexural loading cantilever and four point bending impact loading adhesive strength creep etc are covered LabVIEW software with relevant data acquisition DAQ system is used for all experiments Two final projects each spanning 2 3 weeks are included i flexural loading with stress intensity factor determination and ii dynamic stress wave propagation in a slender rod and determination of the stress strain curves at high strain rates The book provides theoretical concepts that are pertinent to each laboratory experiment and prelab assignment that a student should complete to prepare for the laboratory Instructions for securing off the shelf components to design each experiment and their assembly with figures are provided Calibration procedure is emphasized whenever students assemble components or design experiments Detailed instructions for conducting experiments and table format for data gathering are provided Each lab assignment has a set of questions to be answered upon completion of experiment and data analysis Lecture notes provide detailed instructions on how to use LabVIEW software for data gathering during the experiment and conduct data analysis Experimental Physics Walter F. Smith,2020-03-18 This textbook provides the knowledge and skills needed for thorough understanding of the most important methods and ways of thinking in

experimental physics The reader learns to design assemble and debug apparatus to use it to take meaningful data and to think carefully about the story told by the data Key Features Efficiently helps students grow into independent experimentalists through a combination of structured yet thought provoking and challenging exercises student designed experiments and guided but open ended exploration Provides solid coverage of fundamental background information explained clearly for undergraduates such as ground loops optical alignment techniques scientific communication and data acquisition using LabVIEW Python or Arduino Features carefully designed lab experiences to teach fundamentals including analog electronics and low noise measurements digital electronics microcontrollers FPGAs computer interfacing optics vacuum techniques and particle detection methods Offers a broad range of advanced experiments for each major area of physics from condensed matter to particle physics Also provides clear guidance for student development of projects not included here Provides a detailed Instructor s Manual for every lab so that the instructor can confidently teach labs outside their own research area

Scientific and Technical Aerospace Reports ,1984 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

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

A First Lab in Circuits and Electronics Yannis P. Tsvividis,2018-03-07 Written by an award winning educator and researcher the sixteen experiments in this book have been extensively class tested and fine tuned This lab manual like no other provides an exciting active exploration of concepts and measurements and encourages students to tinker experiment and become creative on their own This benefits their further study and subsequent professional work The manual includes self contained background for all electronics experiments so that the lab can be run concurrently with any circuits or electronics course at any level It uses circuits in real applications which students can relate to in order to motivate them and convince them that what they learn is for real As a result the material is not only made interesting but helps motivate further study in circuits electronics communications and semiconductor devices

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Nuclear Science Abstracts ,1975

U.S. Government Research & Development Reports ,1966

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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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