

COMMON-EMITTER AMPLIFIER

Objective:

The objective of this laboratory is to examine and verify the DC and AC operation of a common-emitter BJT amplifier, and measure its frequency response.

Prelab:

Carry out the following on a separate sheet of paper. Show your work and box your answers. Determine the DC operating point Q (V_{CE} , I_C), small-signal voltage gain $A_v = v_o/v_s$, current gain $A_i = i_o/i_s$, power gain $A_p = P_o/P_s$, input and output resistances R_i and R_o , f_L , and f_H of the amplifier circuit shown in Figure 6.

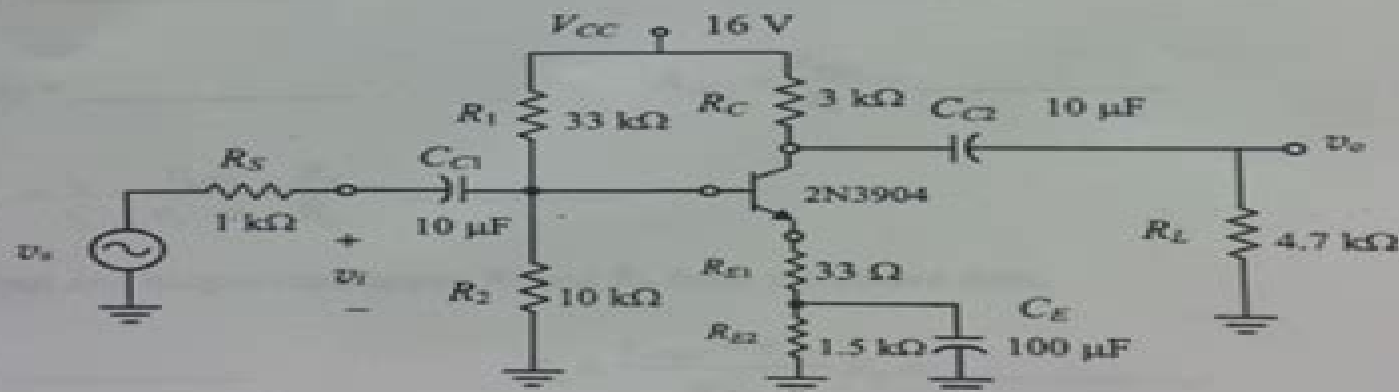


Figure 6: Common-emitter amplifier.

Procedure:

1. Breadboard the circuit of Figure 6. Refer to the 2N3904 transistor data sheets for the pin diagram.
2. Measure and record the following DC voltages and currents.

Common Emitter Amplifier Lab Manual

Russell L. Meade



Common Emitter Amplifier Lab Manual:

Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979

ELECTRONICS LAB MANUAL Volume I, FIFTH EDITION NAVAS, K. A., 2015-09-11 This lab manual is intended to support the students of undergraduate engineering in the related fields of electronics engineering for practicing laboratory experiments. It will also be useful to the undergraduate students of electrical science branches of engineering and applied science. This book begins with an introduction to the electronic components and equipment and the experiments for electronics workshop. Further, it covers experiments for basic electronics lab, electronic circuits lab, and digital electronics lab. A separate chapter is devoted to the simulation of electronics experiments using PSpice. Each experiment has an aim, components and equipment required, theory, circuit diagram, tables, graphs, alternate circuits, answered questions, and troubleshooting techniques. Answered viva voce questions and solved examination questions given at the end of each experiment will be very helpful for the students. The purpose of the experiments described here is to acquaint the students with Analog and digital devices, Design of circuits, Instruments, and procedures for electronic test and measurement.

Fundamentals of Electrical and Electronics Engineering | AICTE Prescribed Textbook - English Susan S.

Mathew, Saji T. Chacko, 2021-11-01 Fundamentals of Electrical Electronics Engineering is a compulsory paper for the first year Diploma course in Engineering Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE and academic content is amalgamated with the concept of outcome-based education. The book covers six topics: Overview of Electronics, Components and Signals, Overview of Analog Circuits, Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written in an easy and lucid manner. A set of exercises at the end of each unit to test the student's comprehension is provided. Some salient features of the book: Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes, and Unit Outcomes; The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem-solving capacity; The book provides lots of vital facts, concepts, principles, and other interesting information; QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided; Student and teacher-centric course materials included in the book in a balanced manner; Figures, tables, equations, and comparative charts are inserted to improve clarity of the topics; Objective questions and subjective questions are given for practices of students at the end of each unit. Solved and unsolved problems including numerical examples are solved with systematic steps. **Basic**

Electronics Paul B. Zbar, 1976 *Laboratory Manual for Electronic Devices and Circuits* David A. Bell, 2001 This lab manual accompanies *Electronic Devices and Circuits 4e* *Electricity-electronics Fundamentals* Paul B. Zbar, Joseph G. Sloop, 1977

Foundations of Electronics and Circuits and Devices Russell L. Meade, 1994

Design Manual for Transistor

Circuits John Millar Carroll, 1961

Experiments in Electronic Fundamentals David Buchla, 1994

Basic Television:

Theory and Servicing Paul B. Zbar, Peter W. Orne, 1971 **Engineering Education for the 21st Century** Dan Budny, 1995 **Penn State Tech Prep Reference Manual** John P. Cancro, Robert E. Carnahan, 1998 **Computer Simulated Experiments for Electronic Devices Using Electronics Workbench** Richard H. Berube, Richard Henry Berube, 1999-09 The accompanying CD ROM includes all of the troubleshooting circuits and all of the circuits needed to perform the experiments **Frontiers in Education 1995** Dan Budny, 1995 **Foundations of Electronics** Russell L. Meade, 1999 Learn electronics fundamentals for both DC and AC circuits from Ohms Law through series and parallel resonant circuits This highly acclaimed introduction to the world of electronics technology has been carefully updated to better provide technicians with a foundation in modern electronics needed to launch a career or pursue more advanced study Real world color codes and strategic highlighting are integrated with ample color charts photos schematics and diagrams for a solid understanding of circuit behavior that equips readers to progress to more complex topics with ease This edition features all new automated calculations for the formulas in the book on the accompanying CD as well as new information on admittance susceptance and more **Lab Manual for Electronics** Martin Feldman, 2001-11 The emphasis is first on understanding the characteristics of basic circuits including resistors capacitors diodes and bipolar and field effect transistors The readers then use this understanding to construct more complex circuits such as power supplies differential amplifiers tuned circuit amplifiers a transistor curve tracer and a digital voltmeter In addition readers are exposed to special topics of current interest such as the propagation and detection of signals through fiber optics the use of Van der Pauw patterns for precise linewidth measurements and high gain amplifiers based on active loads KEY TOPICS Chapter topics include Thevenin's Theorem Resistive Voltage Division Silicon Diodes Resistor Capacitor Circuits Half Wave Rectifiers DC Power Supplies Diode Applications Bipolar Transistors Field Effect Transistors Characterization of Op Amp Circuits Transistor Curve Tracer Introduction to PSpice and AC Voltage Dividers Characterization and Design of Emitter and Source Followers Characterization and Design of an AC Variable Gain Amplifier Design of Test Circuits for BJT's and FET's and Design of FET Ring Oscillators Design and Characterization of Emitter Coupled Transistor Pairs Tuned Amplifier and Oscillator Design of AM Radio Frequency Transmitter and Receiver Design of Oscillators Using Op Amps Current Mirrors and Active Loads Sheet Resistance Design of Analog Fiber Optic Transmission System Digital Voltmeter **Proceedings** American Society for Engineering Education. Conference, 1992 Engineering Education, Preparation for Life American Society for Engineering Education. Conference, 1984 Basic Television Paul B. Zbar, Peter W. Orne, 1978

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