

**Lab 7: Bipolar Junction Transistors**

**Object:** To explore the operation of the bipolar junction transistor and measure its current gain parameter,  $\beta$ .

**Apparatus:** TDS2004B Digital Oscilloscope, 10X Attenuating Probes, Simpson 260 VOM Meter, Fluke 73 DMM, Circuit Chassis, 2N2218 Transistor, Various Resistors, and Cables.

**Introduction:** Today we take up the most important electronic invention of the 20<sup>th</sup> century – the transistor – an *active* device which might be viewed as two silicon diodes arranged back-to-back.

**Exercises:**

1. Prepare for this experiment by obtaining a 2N2218 transistor, a medium-power device intended for general purpose switching and amplifier applications. By referring to the *bottom-view pinout* of the 2N2218 shown in Fig. 1, identify the emitter (E), the base (B) and collector (C) leads, and infer the directions of the BC and BE pn-junctions using the Fluke multimeter set in diode mode. From your results, draw into your notebook the correct “two-diode” schematic for the 2N2218. Is it an NPN or PNP type? Which pin is in electrical contact with the transistor case?

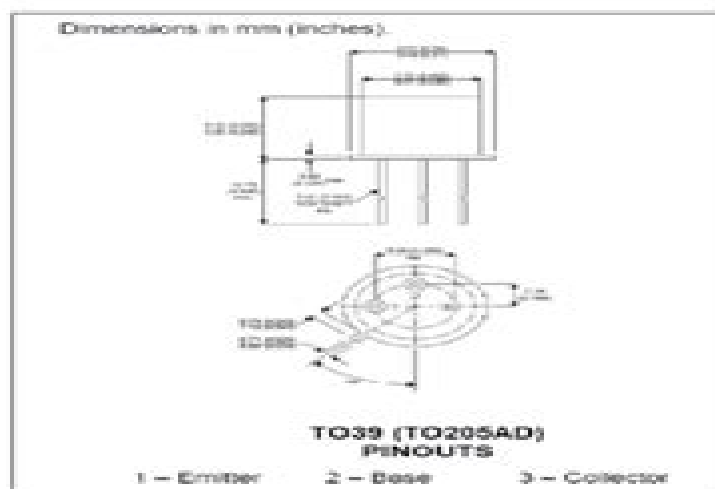


Fig. 1: Pin-out diagram for the 2N2218 bipolar junction transistor.

# Lab Manual Transistor Devices

**Robert F. Coughlin**



## Lab Manual Transistor Devices:

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

**Laboratory Manual for Transistor and Semiconductor Devices** Robert F. Coughlin, 1968 *Manufacturing*

*Practices Laboratory Manual For Engineering Courses* M.S. Matharu, Sukhpal Singh, 2021-05-19 This manual covers in details the theory and practices of Carpentry and Pattern Making Shop Foundry Shop Smithy and Forging Shop Machine Shop Welding Shop Electrical and Electronic Shops Sheet Metal Shops Fitting Shop *Transistor Laboratory Manual* Milton Sol Kiver, Bernard Van Emden, 1962 **Practical/Laboratory Manual Physics Class XII based on NCERT guidelines by Dr. Sunita Bhagia & Megha Bansal**

Dr. J. P. Goel, Er. Meera Goyal, 2020-06-24 SECTION A EXPERIMENTS 1 To determine resistance per cm of a given wire by plotting a graph for potential difference versus current 2 To find resistance of a given wire using meter bridge and hence determine the specific resistance Resistivity of its material 3 To verify the laws of combination Series Parallel of resistance using ammeter bridge 4 To compare the e.m.f of two given primary cells using potentiometer 5 To determine the internal resistance of a given primary cell e.g. Leclanche cell using potentiometer 6 To determine the resistance of a galvanometer by half deflection method and to find its figure of merit 7 A To convert a given galvanometer of known resistance and figure of merit into an ammeter of desired range and to verify the same 7 B To convert a given galvanometer of known resistance and figure of merit into a voltmeter of desired range and to verify the same 8 To find the frequency of AC mains with a sonometer and horse shoe magnet SECTION B EXPERIMENTS 1 To find the value of  $v$  for different values of  $u$  in case of a concave mirror and to find the focal length 2 To find the focal length of a convex lens by plotting graph between  $u$  and  $v$  or  $1/u$  and  $1/v$  3 To find the focal length of a convex mirror using a convex lens 4 To find the focal length of a concave lens using a convex lens 5 To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and angle of deviation 6 To determine refractive index of a glass slab using a travelling microscope 7 To find the refractive index of a liquid by using a convex lens and a plane mirror 8 To draw I-V characteristics curve of a p-n junction in forward bias and reverse bias 9 To draw the characteristics curve of a zener diode and to determine its reverse break down voltage 10 To study the characteristics of a common emitter n-p-n or p-n-p transistor and to find out the values of current and voltage gains SECTION A ACTIVITIES 1 To measure the resistance and impedance of an inductor with or without iron core 2 To measure resistance voltage AC DC current AC and check continuity of given circuit using multimeter 3 To assemble a household circuit comprising of three bulbs three on/off switches a fuse and a power source 4 To assemble the components of a given electrical circuit 5 To study the variation in potential drop with length of a wire for a steady current 6 To draw the diagram of a given open circuit comprising at least a battery resistor rheostat key ammeter and voltmeter Make the components that are not connected in proper order and correct the circuit and also the circuit diagram SECTION B ACTIVITIES 1 To study effect of intensity of light by varying distance of the source on an LDR

Light Depending Resistor 2 To identify a diode a LED a transistor an IC a resistor and a capacitor from mixed collection of such items 3 Use a multimeter to i identify the transistor ii distinguish between n p n and p n p type transistor iii see the unidirectional flow of current in case of a diode and a LED iv Check whether a given electronic components e g diode transistor or IC is in working order 4 To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab 5 To observe polarisation of light using two polaroids 6 To observe diffraction of light due to a thin slit 7 To study the nature and size of the image formed by i convex lens ii concave mirror on a screen by using candle and a screen for different distance of the candle from the lens mirror 8 To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses

**SUGGESTED INVESTIGATORY PROJECT**

- 1 To Study Various factors on which the Internal Resistance EMF of a cell depends
- 2 To study the variations in current following in a circuit containing L D R because of variation a In the power of incandescent lamp used to illuminate the L D R Keeping all the lamps in fixed position b In the Distance of a incandescent lamp of fixed power used to illuminate the L D R
- 3 To find the refractive indices of a Water b Oil Transparent using a plane mirror an equiconvex lens made from a glass of known refractive index and an adjustable object needle
- 4 To design an appropriate logic gate combination for a given truth table
- 5 To investigate the relation between the ratio of i Output and Input voltage ii Number of turns in secondary coils and primary coils of a self designed transformer
- 6 To Investigate the dependence of angle of deviation on the angle of incidence using a hollow prism filled one by one with different transparent fluids
- 7 To Estimate the charge induced on each one of the two identical styrofoam balls suspended in a vertical plane by making use of Coulomb's Law
- 8 To study the factors on which the self inductance of a coil depends by observing the effect of this coil when put in series with a resistor bulb in a circuit fed up by an a c source of adjustable frequency
- 9 To study the earth's magnetic field using a tangent galvanometer

**APPENDIX Some Important Tables of Physical Constants**

Logarithmic and other Tables      *Core Laboratory Manual of Physics for Class XII* Anil Sharma, Prashant Sharma, 2020-04-16 Goyal Brothers Prakashan

*Analog Electronic Circuits Laboratory Manual* Farzin Asadi, 2023-04-06 This is a book for a lab course meant to accompany or follow any standard course in electronic circuit analysis It has been written for sophomore or junior electrical and computer engineering students either concurrently with their electronic circuit analysis class or following that class This book is appropriate for non majors such as students in other branches of engineering and in physics for which electronic circuits is a required course or elective and for whom a working knowledge of electronic circuits is desirable This book has the following objectives

- 1 To support verify and supplement the theory to show the relations and differences between theory and practice
- 2 To teach measurement techniques
- 3 To convince students that what they are taught in their lecture classes is real and useful
- 4 To help make students tinkers and make them used to asking what if questions

Digital Electronics and Microprocessors Lab Manual Mr. Rohit Manglik, 2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources

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**Practical/Laboratory Manual Physics Class - XII -by Er. Meera Goyal (SBPD Publications)** Er. Meera Goyal,2021-07-03 In accordance to the new syllabus of Central Board of Secondary Education CBSE New Delhi and other State Boards following CBSE Curriculum Laboratory Manual for Electronics via Waveform Analysis Edwin C. Craig,2012-12-06 To the Instructor The purpose of this laboratory manual is not just to help students to set up electronic circuits that function as they should The important thing is the electronic concepts that the student learns in the process of setting up and studying these circuits Quite often a student learns more electronics when he has to trouble shoot a circuit than when the circuit performs as it should when first built It is unlikely that any students would be able to complete all of these experiments in one semester The author believes that all students should have laboratory experiences with power supplies amplifiers oscillators and integrated circuits Additionallabomtory experiments should be de termined by the instructor Therefore you can choose those that you want done Some students are more efficient in the labomtory than others Therefore some would be able to complete more exper iments in a semester than others Also many of these experiments cannot be completed in one two hour laboratory period If space is available the circuits could be left intact from one period to the next Or you might want to select steps in an experiment that you want to delete Neither the val ues of the components or the magnitudes of the power supplies as given in the instructions are critical Therefore you could in most cases change them if the ones recommended are not available Practical/Laboratory Manual Physics Class - 12 Er. Meera Goyal,2023-04-30 Sections A 1 Experiments 2 Activities Sections B 1 Experiments 2 Activities 3 Suggested Investigatory 4 Project Work **Laboratory Manual for Electric Circuits** Alexander W. Avtgis,Robert F. Coughlin,Nicholas C. Loomos,1968 Corporate Computer Forensics Training System Laboratory Manual Volume I Cyber Defense Training Systems,J. A. Lewis,2007-07 This is the laboratory and exercise manual to accompany the text manual for Volume I of a corporate and law enforcement computer and digital forensics training system This training system consists of a text manual with explanations and descriptions with more than 200 pictures drawings and diagrams This laboratory and exercise manual contains more than 40 forensic exercises to help prepare students for entry into the profession as a corporate or law enforcement computer examiner The information presented in this training system is updated by industry practice and research This training system is designed to be used in a lecture demonstration environment and requires the use of associated case image files Laboratory Manual for Electronic Instrumentation Earle B. Brown,1968 **Technical Books & Monographs** United States. Energy Research and Development Administration,1974 A Laboratory Manual in Biophotonics Vadim Backman,Adam Wax,Hao F. Zhang,2018-05-15 Biophotonics is a burgeoning field that has afforded researchers and medical practitioners alike an invaluable tool for implementing optical microscopy Recent advances in research have enabled scientists to measure and visualize the structural composition of cells and tissue while generating

applications that aid in the detection of diseases such as cancer Alzheimer s and atherosclerosis Rather than divulge a perfunctory glance into the field of biophotonics this textbook aims to fully immerse senior undergraduates graduates and research professionals in the fundamental knowledge necessary for acquiring a more advanced awareness of concepts and pushing the field beyond its current boundaries The authors furnish readers with a pragmatic quantitative and systematic view of biophotonics engaging such topics as light tissue interaction the use of optical instrumentation and formulating new methods for performing analysis Designed for use in classroom lectures seminars or professional laboratories the inclusion and incorporation of this textbook can greatly benefit readers as it serves as a comprehensive introduction to current optical techniques used in biomedical applications Caters to the needs of graduate and undergraduate students as well as R D professionals engaged in biophotonics research Guides readers in the field of biophotonics beginning with basic concepts before proceeding to more advanced topics and applications Serves as a primary text for attaining an in depth systematic view of principles and applications related to biophotonics Presents a quantitative overview of the fundamentals of biophotonic technologies Equips readers to apply fundamentals to practical aspects of biophotonics     Technical Books & Monographs United States. Department of Energy,     **Laboratory Manual for Electronic Shop Practices** Alexander W. Avtgis, William F. Megow, 1968 For the electronic technician     **Laboratory Manual for Electronic Devices and Circuits** David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4 e     **Course and Curriculum Improvement Projects: Mathematics, Science, Social Sciences** National Science Foundation (U.S.), 1966

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## **Table of Contents Lab Manual Transistor Devices**

1. Understanding the eBook Lab Manual Transistor Devices
  - The Rise of Digital Reading Lab Manual Transistor Devices
  - Advantages of eBooks Over Traditional Books
2. Identifying Lab Manual Transistor Devices
  - 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 Lab Manual Transistor Devices
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Manual Transistor Devices
  - Personalized Recommendations
  - Lab Manual Transistor Devices User Reviews and Ratings
  - Lab Manual Transistor Devices and Bestseller Lists
5. Accessing Lab Manual Transistor Devices Free and Paid eBooks

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