

Experiment No. 2

Title: Plot the characteristic curve of Phototransistor

Objectives:

- Explore the working principle of phototransistor
- Study signal conditioning method of phototransistor
- Plot and investigate the characteristic curve of phototransistor

Theory:

A phototransistor is a device that converts light energy into electric energy. A phototransistor is made of a bipolar semiconductor and focuses the energy that is passed through it. Photons (light particles) activate phototransistors and are used in virtually all electronic devices that depend on light in some way. Although ordinary transistors exhibit the photosensitive effects if they are exposed to light, the structure of the phototransistor is specifically optimized for photo applications. The photo transistor has much larger base and collector areas than would be used for a normal transistor.

Phototransistors are generally encased in an opaque or clear container in order to enhance light as it travels through it and allow the light to reach the phototransistor's sensitive parts. The light enters the base region of the phototransistor where it causes electron-hole pairs to be generated. This mainly occurs in the reverse biased base-collector junction. The hole-electron pairs move under the influence of the electric field and provide the base current, causing electrons to be injected into the emitter.

Photo transistors are operated in their active region, although the base connection is left open circuit or disconnected because it is not required. The base of the photo transistor would only be used to bias the transistor so that additional collector current was flowing and this would mask any current flowing as a result of the photo-action. For operation the bias conditions are quite simple. The collector of an n-p-n transistor is made positive with respect to the emitter or negative for a p-n-p transistor.

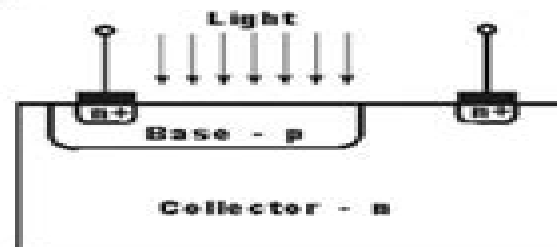


Figure 1. Phototransistor

Transducer Measurement Lab Manual

**Patricia J. Donnelly, George A.
Wistreich**



Transducer Measurement Lab Manual:

Laboratory Manual: Instrumentation and Control Systems Lab V. Amarnath Reddy, **Fluid Mechanics with Laboratory Manual** Mr. Sanjeev Pandey, 2024-08-16 Combines theoretical concepts of fluid mechanics with practical laboratory experiments including measurement techniques fluid flow analysis and equipment operation *FLUID MECHANICS WITH LABORATORY MANUAL, SECOND EDITION* MAJUMDAR, BIRESWAR, 2016-02-29 Primarily intended for the undergraduate students of mechanical engineering civil engineering chemical engineering and other branches of applied science this book now in its second edition presents a comprehensive coverage of the basic laws of fluid mechanics The text discusses the solutions of fluid flow problems that are modelled by various governing differential equations Emphasis is placed on formulating and solving typical problems of engineering practice **Geotechnical Laboratory Measurements for Engineers** John T. Germaine, Amy V. Germaine, 2009-06-02 A comprehensive guide to the most useful geotechnical laboratory measurements Cost effective high quality testing of geo materials is possible if you understand the important factors and work with nature wisely Geotechnical Laboratory Measurements for Engineers guides geotechnical engineers and students in conducting efficient testing without sacrificing the quality of results Useful as both a lab manual for students and as a reference for the practicing geotechnical engineer the book covers thirty of the most common soil tests referencing the ASTM standard procedures while helping readers understand what the test is analyzing and how to interpret the results Features include Explanations of both the underlying theory of the tests and the standard testing procedures The most commonly taught laboratory testing methods plus additional advanced tests Unique discussions of electronic transducers and computer controlled tests not commonly covered in similar texts A support website at www.wiley.com/college/germaine with blank data sheets you can use in recording the results of your tests as well as Microsoft Excel spreadsheets containing raw data sets supporting the experiments **Laboratory Manual for Introductory Electronics Experiments** L. K. Maheshwari, M. M. S. Anand, 1979 *Laboratory Manual for Anatomy and Physiology* Connie Allen, Valerie Harper, 2011-01-05 The Laboratory Manual for Anatomy and Physiology by Allen and Harper presents material in a clear and concise way It is very interactive and contains activities and experiments that enhance readers ability to both visualize anatomical structures and understand physiological topics Lab exercises are designed to require readers to first apply information they learned and then to critically evaluate it All lab exercises promote group learning and the variety offers learning experiences for all types of learners visual kinesthetic and auditory Additionally the design of the lab exercises makes them easily adaptable for distance learning courses *Laboratory Manual for Anatomy & Physiology* Michael G. Wood, 2005 Michael G Wood s straightforward and complete lab manual guides students through hands on exercises that reinforce concepts they ve learned in their anatomy physiology lecture course The full color illustrations and step by step instructions are designed to help students visualize structures understand three dimensional relationships and comprehend

complex physiological processes Many of the illustrations are the same as the illustrations by William Ober and Claire Garrison that appear in Martini Fundamentals of Anatomy Physiology Seventh Edition making this lab manual a perfect companion to that textbook

Workbook and Lab Manual for Sonography - E-Book Reva Arnez Curry,2015-11-06 Curry and Tempkin s Workbook for Sonography Introduction to Normal Structure and Function 4th Edition is the essential reinforcement and review tool for visual information covered in the text This Workbook supports and completes the text by providing an excellent introduction to sonography and preparing you to accurately identify sonographic pathology and abnormalities Each chapter opens with review questions and features drawings from the text with parallel sonograms where appropriate that include leader lines to label structures You fill in the labels to identify structures reinforcing visual and auditory learning from the text You can also refer to the text if you are uncertain or need to review an area Unlabeled line drawings and images from every chapter allow for immediate thorough review of material and let you refer to the text s diagrams and Workbook s appendix for answers Review questions test you on information learned in the text User friendly standardized chapter format means you know exactly where to go for review in each chapter NEW Thorough coverage of the newest U S imaging techniques keeps you informed about the latest developments and prepares you to meet the challenges of the clinical environment NEW Three brand new chapters give you the most up to date information on fetal echocardiography laboratory values and ergonomics NEW 340 added content review questions provide you with extra practice on core content from Curry and Tempkin s textbook NEW Updated sonograms present the best and latest images from state of the art equipment including 3D and 4D images

Transducer Handbook H B Boyle,2013-10-22 When selecting or using a particular type of transducer or sensor there are a number of factors which must be considered The question is not only for what kind of measurement but under what physical conditions constraints of accuracy and to meet which service requirements is a transducer needed This handbook is designed to meet the selection needs of anyone specifying or using transducers with an electrical output Each transducer is described in an easy to use tabular format giving all of the necessary data including operating principles applications range limits errors over range protection supply voltage requirements sensitivities cross sensitivities temperature ranges and sensitivities and signal conditioning needs The author has added notes that reflect his broad practical experience Added to this is an extensive worldwide suppliers directory

Anatomy and Physiology, Laboratory Manual Connie Allen,Valerie Harper,2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course

Vibration, Acoustics and Strain Measurement C. Sujatha,2023-02-22 This textbook provides a comprehensive description of a

variety of vibration and acoustic pickups and exciters as well as strain gauge transducers It is an exhaustive manual for setting up basic and involved experiments in the areas of vibration acoustics and strain measurement using strain gauges only It further serves as a reference to conduct experiments of a pedagogical nature in these areas It covers the various theoretical aspects of experimental test rigs as well as a description and choice of transducers equipment The fundamentals of signal processing theory including the basics of random signals have been included to enable the user to make a proper choice of settings on an analyser or measuring equipment Also added is a description of modal analysis theory and related parameter extraction techniques All chapters are provided with conceptual questions which will provoke the reader to think and gain a better understanding of the subjects The textbook illustrates around fifty experiments in the areas of vibration acoustics and strain measurements Given the contents this textbook is useful for undergraduate and postgraduate students in the areas of mechanical engineering with applications that range from civil structures architectural and environmental systems and all forms of mechanical systems including transport vehicles and aircraft

Workbook and Lab Manual for Sonography Reva Arnez Curry, Betty Bates Tempkin, 2016-01-01 Curry and Tempkin s Workbook for Sonography Introduction to Normal Structure and Function 4th Edition is the essential reinforcement and review tool for visual information covered in the text This Workbook supports and completes the text by providing an excellent introduction to sonography and preparing you to accurately identify sonographic pathology and abnormalities Each chapter opens with review questions and features drawings from the text with parallel sonograms where appropriate that include leader lines to label structures You fill in the labels to identify structures reinforcing visual and auditory learning from the text You can also refer to the text if you are uncertain or need to review an area Unlabeled line drawings and images from every chapter allow for immediate thorough review of material and let you refer to the text s diagrams and Workbook s appendix for answers Review questions test you on information learned in the text User friendly standardized chapter format means you know exactly where to go for review in each chapter NEW Thorough coverage of the newest U S imaging techniques keeps you informed about the latest developments and prepares you to meet the challenges of the clinical environment NEW Three brand new chapters give you the most up to date information on fetal echocardiography laboratory values and ergonomics NEW 340 added content review questions provide you with extra practice on core content from Curry and Tempkin s textbook NEW Updated sonograms present the best and latest images from state of the art equipment including 3D and 4D images

A Laboratory Manual and Study Guide for Anatomy and Physiology Kenneth G. Neal, 1983 **Laboratory Manual for Anatomy and Physiology** Patricia J. Donnelly, George A. Wistreich, 1993 **Kinanthropometry and Exercise Physiology Laboratory Manual: Tests, Procedures and Data** Roger Eston, Thomas Reilly, 2013-03-01 Kinanthropometry is the study of human body size shape and form and how those characteristics relate to human movement and sporting performance In this fully updated and revised edition of the classic guide to kinanthropometric theory and practice leading

international sport and exercise scientists offer a clear and comprehensive introduction to essential principles and techniques Each chapter guides the reader through the planning and conduct of practical and laboratory sessions and includes a survey of current theory and contemporary literature relating to that topic The book is fully illustrated and includes worked examples exercises research data chapter summaries and guides to further reading throughout Volume Two Exercise Physiology covers key topics such as neuromuscular aspects of movement skeletal muscle function oxygen transport including haematology pulmonary and cardiovascular functions metabolism and thermoregulation VO₂ kinetics physiological economy efficiency and fitness physiological limitations to performance assessment of energy expenditure perceived exertion and maximal intensity The Kinanthropometry and Exercise Physiology Laboratory Manual is essential reading for all serious students and researchers of sport and exercise science kinesiology and human movement Roger Eston is Professor of Human Physiology and Head of the School of Sport and Health Sciences at the University of Exeter Thomas Reilly is Professor of Sports Science and Director of the Research Institute for Sport and Exercise Sciences at Liverpool John Moores University

Kinanthropometry and Exercise Physiology Laboratory Manual Roger Eston, Thomas Reilly, 2001

Kinanthropometrics is the study of the human body size and somatotypes and their quantitative relationships with exercise and nutrition This is the second edition of a successful text on the subject *Amyotrophic Lateral Sclerosis V.*

Cosi, 2013-03-09 An International Conference on Therapeutic Psychological and Research Aspects of Amyotrophic Lateral Sclerosis was held in Varese Italy from the 27th to the 31st March 1985 Health care professionals scientists patients and their families from twenty countries around the world participated in this meeting The objectives of the Varese conference were the following a To provide a forum for the proponents of the various paths of research into ALS b To correlate the useful therapies employed regionally for the purpose of developing a common guide for patients families and supporting professionals c To encourage self examination by the health care professionals into the psychological barriers imposed by a diagnosis of terminal illness for which there is no known cause or cure Not surprisingly there were no announcements of breakthroughs or miracle cures which are nonetheless hoped for in the confrontation of a disease such as ALS It is fair to say however that Varese provided the context for a thorough review of what is known about ALS and we hope that the papers will renew some of the enthusiasm which has characterized this conference The book contains six sections Basic Research Aspects Diagnostic Tools Clinical Management Therapeutic Trials Psychological Aspects and the Epidemiology of ALS Certain aspects such as pathological studies and animal models have not been covered these subjects were partially treated during the informal sessions Nevertheless the large number of papers bears evidence to the growing interest in ALS and to the success of the Varese meeting

Handbook of Transducers Harry N. Norton, 1989 Transducers are being used extensively for measurement as well as control instrumentation in virtually all scientific and industrial fields This is a handbook for their use in automobiles appliances alarm systems and pollution control This book shows which transducers are

available for the various categories of measurements describes how they operate and clarifies the differences between transducer types usable for similar measurements

Real-Time Environmental Monitoring Miguel F.

Acevedo,2023-10-19 This lab manual is a companion to the second edition of the textbook Real Time Environmental Monitoring Sensors and Systems Tested in pedagogical settings by the author for many years it includes applications with state of the art sensor technology and programs such as R Python Arduino PHP HTML and SQL It helps students and instructors in science and engineering better understand how to use and design a variety of sensors and how to build systems and databases when monitoring different environments such as soil water and air Examples of low cost and open access systems are included and can serve as the basis of learning tools for the concepts and techniques described in the textbook Furthermore the manual provides links to websites and scripts in R that allow learning how to analyze a variety of datasets available from repositories and databases maintained by many agencies and institutions The first hands on environmental monitoring lab manual written in tutorial style and classroom tested Includes 14 lab guides that parallel the theory developed in 14 chapters in the companion textbook Provides clear step by step protocols to understand basic and advanced theory through applicable exercises and problems Injects a practical implementation of the existing textbook A valuable guide for students and practitioners worldwide engaged in efforts to develop employ and maintain environmental monitors Intended for upper level undergraduate and graduate students taking courses in electrical engineering civil and environmental engineering mechanical engineering geosciences and environmental sciences as well as instructors who teach these courses Professionals working in fields such as environmental services and researchers and academics in engineering will also benefit from the range of topics included in this lab manual

Newnes Interfacing Companion Tony

Fischer-Cripps,2002-08-05 Tony Fischer Cripps is a Project Leader in the Division of Telecommunications and Industrial Physics of the CSIRO Commonwealth Scientific Industrial Research Organisation Australia He was previously lecturer University of Technology Sydney UTS Australia and has also worked for the National Institute of Standards and Technology USA NIST formerly National Bureau of Standards NBS The essential pocket reference for engineers and students Interfacing in action PCs PLCs transducers and instrumentation in one book Develop systems and applications that work with Newnes Interfacing Companion

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