

$$R_L = 100\Omega$$

$$f = 50\text{Hz}$$

$$C = 470\mu\text{F}$$

$$\text{Efficiency } \eta = P_{DC} / P_{AC} \Rightarrow (I_{DC}^2 * R_L) / [(I_{rms})^2 * (R_L + R_f + R_s)]$$

Where $I_{rms} = I_{M}/\sqrt{2}$ and $I_M = V_M / (R_L + R_f + R_s)$

$$\text{Efficiency} = \eta \approx (V_{DC})^2 / (V_{i rms})^2$$

$$\text{Regulation } \% \text{ Regulation} = \frac{V_{NL} - V_{FL}}{V_{FL}} \times 100$$

Note: repeat the same procedure of HWR for calculating Regulation .

PROCEDURE:

1. Connections are made as shown in the circuit diagram
2. Switch on the AC power supply
3. Observe the wave form on CRO across the load resistor and measure the o/p amplitude and frequency.
4. Note down R_L , I_{DC} , V_{ODC} , V_{iAC} , V_{oAC} in the tabular column for different load resistances.
5. Calculate the ripple and efficiency and regulation for each load resistance.
6. Repeat the above procedure with filter capacitor.

TABULAR COLUMN:

Sl. No.	R_L	I_{DC}	V_O (DC)	V_{iN} (AC)	V_O (AC)	Ripple	Efficiency	Regulation

(Without filter) Ripple = $r_{theoretical} = 0.48$ $r_{practical} = \underline{\hspace{2cm}}$

(With Filter) $r_{theoretical} = 1 / (4\sqrt{3} f C R_L) = 0.06$ for $C = 470\mu\text{F}$, $r_{practical} = \underline{\hspace{2cm}}$

Ripple factor = $r_{practical} = V_{orms} / V_{DC}$

Efficiency = $\eta_{theoretical} = 81.2\%$ $\eta_{practical} \approx (V_{DC})^2 / (V_{i rms})^2$

Regulation = $\% \text{ Regulation} = \frac{V_{NL} - V_{FL}}{V_{FL}} \times 100$

Where V_{NL} = no load voltage = voltage across output by removing load resistance.

V_{FL} = Full load voltage = Voltage across output with load resistance.

Aec Lab Manual Vtu

David Bell



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Laboratory Manual for Electronic Devices and Circuits David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4 e Electrical Engineering Lab M. Riaz, 1966 **Electronics for Electrical Engineering Technician Program, ELE 8930 : Lab Manual** Bourgon, Gilles, Algonquin College, 1998 Lab Manual for Electronic Devices, Global Edition THOMAS L. FLOYD, 2018-06-19 This laboratory manual is carefully coordinated to the text Electronic Devices Tenth edition Global edition by Thomas L Floyd The seventeen experiments correspond to the chapters in the text except the first experiment references Chapters 1 and the first part of Chapter 2 All of the experiments are subdivided into two or three Parts With one exception Experiment 12 B the Parts for the all experiments are completely independent of each other The instructor can assign any or all Parts of these experiments and in any order This format provides flexibility depending on the schedule laboratory time available and course objectives In addition experiments 12 through 16 provide two options for experiments These five experiments are divided into two major sections identified as A or B The A experiments continue with the format of previous experiments they are constructed with discrete components on standard protoboards as used in most electronic teaching laboratories The A experiments can be assigned in programs where traditional devices are emphasized Each B experiment has a similar format to the corresponding A experiment but uses a programmable Analog Signal Processor ASP that is controlled by free Computer Aided Design CAD software from the Anadigm company www.anadigm.com These experiments support the Programmable Analog Design feature in the textbook The B experiments are also subdivided into independent Parts but Experiment 12 B Part 1 is a software tutorial and should be performed before any other B experiments This is an excellent way to introduce the ASP technology because no other hardware is required other than a computer running the downloaded software In addition to Experiment 12 B the first 13 steps of Experiment 15 B Part 2 are also tutorial in nature for the AnadigmFilter program This is an amazing active filter design tool that is easy to learn and is included with the AnadigmDesigner2 AD2 CAD software The ASP is part of a Programmable Analog Module PAM circuit board from the Servenger company www.servenger.com that interfaces to a personal computer The PAM is controlled by the AD2 CAD software from the Anadigm company website Except for Experiment 12 B Part 1 it is assumed that the PAM is connected to the PC and AnadigmDesigner2 is running Experiment 16 B Part 3 also requires a spreadsheet program such as Microsoft Excel The PAM is described in detail in the Quick Start Guide Appendix B Instructors may choose to mix A and B experiments with no loss in continuity depending on course objectives and time We recommend that Experiment 12 B Part 1 be assigned if you want students to have an introduction to the ASP without requiring a hardware purchase A text feature is the Device Application DA at the end of most chapters All of the DAs have a related laboratory exercise using a similar circuit that is sometimes simplified to make laboratory time as efficient as possible The same text icon identifies the related DA exercise in the lab manual One issue is the trend of industry to smaller surface

mount devices which are very difficult to work with and are not practical for most lab work. For example, almost all varactors are supplied as surface mount devices now. In reviewing each experiment, we have found components that can illustrate the device function with a traditional one. The traditional through-hole MV2109 varactor is listed as obsolete but will be available for the foreseeable future from Electronix Express www.elexp.com so it is called out in Experiment 3. All components are available from Electronix Express www.elexp.com as a kit of parts; see list in Appendix A. The format for each experiment has not changed from the last edition and is as follows:

- Introduction:** A brief discussion about the experiment and comments about each of the independent parts that follow.
- Reading:** Reading assignment in the Floyd text related to the experiment.
- Key Objectives:** A statement specific to each part of the experiment of what the student should be able to do.
- Components Needed:** A list of components and small items required for each part but not including the equipment found at a typical lab station.
- Particular care:** Has been exercised to select materials that are readily available and reusable, keeping cost at a minimum.
- Parts:** There are two or three independent parts to each experiment.
- Needed tables, graphs, and figures:** are positioned close to the first referenced location to avoid confusion.
- Step numbering:** starts fresh with each part but figures and tables are numbered sequentially for the entire experiment to avoid multiple figures with the same number.
- Conclusion:** At the end of each part, space is provided for a written conclusion.
- Questions:** Each part includes several questions that require the student to draw upon the laboratory work and check his or her understanding of the concepts.
- Troubleshooting:** questions are frequently presented.
- Multisim Simulation:** At the end of each experiment except 1, one or more circuits are simulated in a Multisim computer simulation.
- New Multisim troubleshooting problems:** have been added to this edition.
- Multisim troubleshooting files:** are identified with the suffix f1, f2, etc. in the file name, standing for fault1, fault2, etc.
- Other files:** with nf as the suffix include demonstrations or practice using instruments such as the Bode Plotter and the Spectrum Analyzer.
- A special icon:** is shown with all figures that are related to the Multisim simulation.
- Multisim files:** are found on the website www.pearsonglobaledition.com.
- Floyd Microsoft PowerPoint slides:** are available at no cost to instructors for all experiments. The slides reinforce the experiments with troubleshooting questions and a related problem and are available on the instructor's resource site.
- Each laboratory station:** should contain a dual variable regulated power supply, a function generator, a multimeter, and a dual channel oscilloscope.
- A list of all required materials:** is given in Appendix A along with information on acquiring the PAM.

As mentioned, components are also available as a kit from Electronix Express; the kit number is 32DBEDFL10.

POLYTECHNIC LAB MANUAL FOR ENGINEERING SCIENCE, 2014 **Electrical Engineering Laboratory Manual** Stanley Parker Smith, 1936 **Electronics-2 for Electrical Engineering Technician Program, ELE 8930 : Lab Manual** Bourgon, Gilles, Algonquin College, 2001 Basic Electrical and Electronics Engineering Laboratory Manual Jaspreet Singh, 2021-05-19 basic electrical and electronics laboratory manual for engineering and diploma in engineering courses *Fundamentals of Electronic Devices and Circuits Lab Manual* David Bell, 2009-11-22 The laboratory

investigations in this manual are designed to demonstrate the theoretical principles set out in the book Fundamentals of Electronic Devices and Circuits 5 e A total of 43 laboratory investigations are offered involving the construction and testing of the circuits discussed in the textbook Each investigation can normally be completed within a two hour period The procedures contain some references to the textbook however all necessary circuit and connection diagrams are provided in the manual so that investigations can also be preformed without the textbook

Introduction to Electrical and Computer Engineering Patrick Nunally,2021-12-26 This laboratory manual is intended for use in an Introduction to Electrical and Computer Engineering course and is appropriate for two and four year electrical engineering curriculums The manual contains sufficient exercises for a typical 15 week course using a two to three hour practicum period The topics range from basic laboratory procedures series parallel circuits mesh and nodal analysis an introduction to capacitors and inductors as well as basic digital logic Boolean equivalents digital encoders decoders mux and demux circuits as well as basic circuits for digital computation For equipment each lab station should include a dual adjustable DC power supply and a quality DMM capable of reading DC voltage current and resistance A selection of standard value 1/4 watt carbon film resistor ranging from a few ohms to a few mega ohms is required along with 10 k and 100 k potentiometers 100 nF and 220 nF capacitors and a few discrete 7400 series logic gates and 555 timers Each exercise begins with an Objective and a Theory Overview The Equipment List follows with space provided for serial numbers and measured values of components Schematics are presented next along with the step by step procedure All data tables are grouped together typically with columns for the theoretical and experimental results along with a column for the percent deviations between them Finally a group of appropriate questions are presented For those with longer scheduled lab times a useful addition is to simulate the circuit s with a SPICE based tool such as LTSpice or similar software and compare those results to the theoretical and experimental results as well

Electrical Engineering Laboratory Manual ... Lester Elmer Beck,1946 **Lab Manual for Introductory Circuit Analysis** Robert L. Boylestad,Gabriel Kousourou,2015-07-09 The primary objectives of this revision of the laboratory manual include insuring that the procedures are clear that the results clearly support the theory and that the laboratory experience results in a level of confidence in the use of the testing equipment commonly found in the industrial environment For those curriculums devoted to a dc analysis one semester and an ac analysis the following semester there are more experiments for each subject than can be covered in a single semester The result is the opportunity to pick and choose those experiments that are more closely related to the curriculum of the college or university All of the experiments have been run and tested during the 13 editions of the text with changes made as needed The result is a set of laboratory experiments that should have each step clearly defined and results that closely match the theoretical solutions Two experiments were added to the ac section to provide the opportunity to make measurements that were not included in the original set Developed by Professor David Krispinsky of Rochester Institute of Technology they match the same format of

the current laboratory experiments and cover the material clearly and concisely All the experiments are designed to be completed in a two or three hour laboratory session In most cases the write up is work to be completed between laboratory sessions Most institutions begin the laboratory session with a brief introduction to the theory to be substantiated and the use of any new equipment to be used in the session **Advanced Electronics : Lab Manual, ELE8848** Bourgon, Gilles,Algonquin College,2000 **Lab Manual** Buchla,1999-01 Electronics I E. L. Adams,Algonquin College. Electronics Department,1993 **Basic Electronics Lab Manual** Energy Concepts, Inc,1976 **Lab Volt Lab Manual** Stephen L. Herman,1998-11-03 This exciting full color book is the most comprehensive text book on DC AC circuits and machines for electrical students on the market today It provides complete coverage of concepts relating to electrical theory as well as giving practical how to examples of many of the common tasks that electricians must perform The book has been organized so that all relevant information is located within a given chapter making it easy to access and easy to teach topics in any order With its visually appealing easy to understand coverage of alternating current theory and expanded coverage of topics such as transformers and electrical filters Delmar s Standard Textbook of Electricity 2E continues to set the standard in DC AC circuits and machines **Lab Manual [for] Electronic Devices** John M. Jeffords,1989 **Electronics Fundamentals** Richard Jinbo,Lois Fouse,2000 *Electronic Circuits I and II Lab Manual* Wayne M. Hope,2004

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web egr valve position sensor 2kd ftv engine contact type 1 this sensor detects the actual amount of the egr valve opening scv suction control valve linear solenoid valve 1 the scv position is controlled by the signals from the ecu and a fuel volume that suits the scv position is drawn into the pumping portion plunger portion injector

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web toyota 2kd ftv the toyota 2kd ftv is a 2 5 l 2 494 cc 152 2 cu in four cylinders four stroke cycle water cooled turbocharged internal combustion diesel engine from the toyota kd family manufactured by the toyota motor corporation from 2001

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web 2kd ftv engine mechanical torque specifications part tightened n m kgf cm ft lbf engine mounting bracket rh x cylinder block 68 694 50 engine mounting bracket lh x cylinder block 68 694 50 engine coolant temperature sensor x cylinder head 20 204 15 camshaft position sensor x timing gear case 8 5 87 75 in lbf crankshaft

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web the construction operation and control of main crs components supply pump injectors rail are identical to the components described in the previously issued common rail system for toyota hilux kijang innova innova 1kd 2kd doc id 00400077 primary changes and additions are listed below

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web this generation of 2kd ftv engine produces 88 kw 118 hp 120 ps at 3600 rpm and the maximum torque is 325 n m 240 lb ft 33 kg m at 2000 rpm this engine is used in the toyota hilux toyota fortuner toyota innova and toyota hiace

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web toyota s 2kd ftv engine also known as 2 5 d 4d is a 2 5 liter inline four cylinder turbo diesel engine the engine has been produced since 2001 at a japanese toyota s plant and is installed in the toyota fortuner and 4runner

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web 2kd ftv engine mechanical torque specifications 2kd ftv engine mechanical torque specifications part tightened n m kgf cm ft lbf engine mounting bracket rh x cylinder block engine oil level sensor x oil pan 8 0 82 71 in lbf thrust washer x cylinder block 13 133 10 idle gear thrust plate x idle gear shaft

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web mar 12 2022 by joe edwards published on march 12 2022 updated on june 3 2023 the kd engines are a diesel series first introduced by toyota in 2000 the first generation of the toyota kd engine known as the 1kd ftv 3 0l was seen in july of 2000 and first used in the japanese market s toyota land cruiser prado

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