

$$T_{ON} = R_1 C \ln \left[ \frac{1+\beta}{1-\beta} \right]$$

$$= 1k * 0.1\mu f * 1.1$$

$$T_{ON} = 0.11mSec$$

$$T_{OFF} = R_2 C \ln \left[ \frac{1+\beta}{1-\beta} \right]$$

$$= 2k * 0.1\mu f * 1.1$$

$$T_{OFF} = 0.22mSec$$

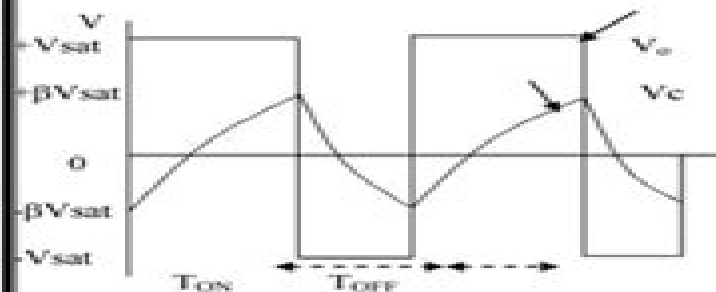
$$\text{Total time period } T = T_{ON} + T_{OFF} = 0.11mSec + 0.22mSec$$

$$T = 0.33mSec$$

$$\text{Duty cycle (D)} = \frac{T_{ON}}{T} = \frac{0.11msec}{0.33msec} = 0.33 * 100 = 33\%$$

$$F = \frac{1}{T} = \frac{1}{0.33msec} = 3kHz$$

#### WAVEFORMS:



#### Procedure:

1. Follow the simulation steps given in Expt No 6.
2. Use the available cursor on the simulated window to measure the frequency and duty cycle and compare with the theoretical value.

# Ec2209 Lab Manual

**Berlin**



## **Ec2209 Lab Manual:**

*Electronic Devices* Berlin, 1996-01-01      **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](http://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](http://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](http://www.elexp.com) so it is called out in Experiment 3 All components are available from Electronix Express [www.elexp.com](http://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 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 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 A 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](http://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

Electronic Devices and Circuit Theory Lab Manual (Pspice Emphasis) Boylestad,Louis Nashelsky,Franz Monssen,2005-04      Digital Electronics Lab Manual Abraham Michelen,2000

Accompanying CD ROM includes Electronics Workbench circuits for the experiments in the manual      **Simulation Lab Manual for use with Electricity for the Trades** Frank D. Petruzella,2019-02-14      **ELEX 1105** ,2015      **Electronics Fundamentals Student Lab Manual** Global Specialties,2022-11-13      **Lab Manual for Digital Fundamentals** Thomas L. Floyd,David M. Buchla,2012-08-03 This is a student supplement associated with Digital Fundamentals A Systems Approach 1 e Thomas L Floyd ISBN 0132933950      **ETEC 101** Zvonimir Stojanovic,2016      □□□ □□□□ □□□ George Silverstone,1923

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