

The advantages of this oscillator is that the frequency may be varied in the range of 10Hz to 100 KHz whereas in RC phase shift oscillator the frequency cannot be varied.

### Theory

A block diagram of Wein's bridge oscillator is shown in figure 8(a). It consists of a non inverting amplifier and a frequency determining network consisting of  $R_1C_1$  in series  $R_2C_2$  in shunt.

The equivalent circuit of Wein's bridge oscillation is shown in figure 8(b) as follows.

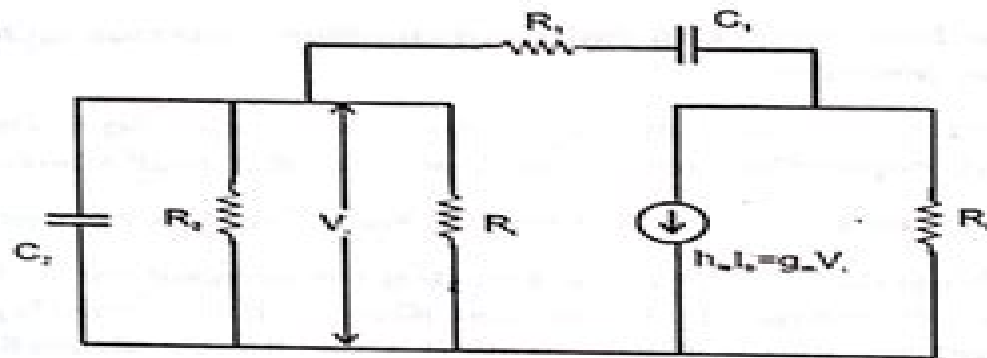


Figure 8(b) Equivalent circuit of Wein's bridge oscillator

where  $R_1$  includes the input impedance and any biasing resistance of the active device used and  $R_L$  consists of output resistance of the device and any load connected to the amplifier.

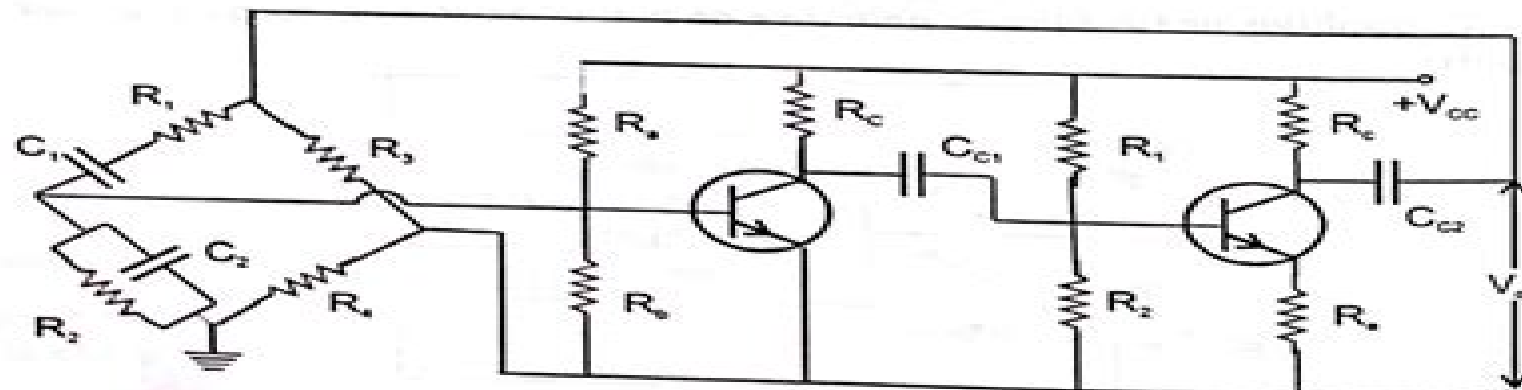


Figure 9 Wein's bridge oscillator using BJT

# Jntuk Eca Lab Manual

**David M. Buchla**



## **Jntuk Eca Lab Manual:**

*Laboratory Manual for Introductory Electronics Experiments* L. K. Maheshwari, M. M. S. Anand, 1979      **Laboratory Manual for Electronic Devices and Circuits** David A. Bell, 2001 This lab manual accompanies *Electronic Devices and Circuits* 4 e      **The Complete Lab Manual for Electricity** Stephen L. Herman, 2008-02-25 The Complete Laboratory Manual for Electricity 3rd Edition is a valuable tool designed to fit into any basic electrical program that incorporates lab experience This updated edition will enhance your lab practices and the understanding of electrical concepts From basic electricity through AC theory transformers and motor controls all aspects of a typical electrical curriculum are explored in a single volume Each lab features an explanation of the circuit to be connected with examples of the calculations necessary to complete the exercise and step by step procedures for conducting the experiment Hands on experiments that acquaint readers with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series parallel combination RL series and parallel RC series and parallel and RLC series and parallel circuits Important Notice Media content referenced within the product description or the product text may not be available in the ebook version      *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 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 Instructor's Solutions Manual to the Lab Manual for Electric Circuit Analysis {by} S.A. Bector Mohamed Ghorab, 1987 Electrical Engineering Laboratory Manual ... Lester Elmer Beck, 1946      ELEX 1105 Lab Manual ,2011      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 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 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

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