



This lit bulb is part of an AC circuit. The coil of wire in the background would have no effect on a DC circuit, but is a key component of an AC circuit. It is called an “inductor.”

# AC CIRCUITS

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## 1 Introduction

In this lab, we will conclude our study of Alternating Current (AC) electricity by looking in detail at how circuits behave when an AC voltage is applied. The previous labs have taught us that AC is the natural choice for easy power generation and transmission. Therefore, it is important to understand how various types of circuit elements behave in the AC mode.

For our purposes, circuit elements can broadly be classified into three ideal devices: resistors, capacitors, and inductors, denoted by  $R$ ,  $C$ , and  $L$  respectively. Many real-world devices can be modeled as combinations of these. Electric motors, for instance, are mostly inductive in nature, with a non-negligible amount of internal resistance; we can model this as a series combination of an inductor and a resistor. Your toaster oven, on the other hand, is almost completely resistive and can be modeled simply as a resistor. Finally, a radio has a tuning circuit that is inductive and capacitive. When you turn to a specific station, you are varying a capacitor in the radio tuning circuit so that it is in resonance with the broadcast frequency of the station.

An important property of resistors is that if an alternating current flows through them, the voltage drop across them is proportional to the current. In Sections 5-7 you will discover that this is *not* true for capacitors and inductors; while the voltage drop is still a sine wave, it is *phase shifted* relative to the current. To better understand the behavior of the AC circuits, we will be using **phasors** to represent voltages and currents. While some textbooks may contain a definition of phasors, the discussion of their use is typically limited, so we have included a discussion of their use in Section 2 (note also that conventions may vary between textbooks.)

Many systems have a “natural” frequency at which they tend to oscillate. Examples you have

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Malvino**



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AC Circuits Lab Manual Wayne M. Hope,2001-01-01      **AC Electrical Circuits** James Fiore,2014-01-13 This laboratory manual features a total of 15 experiments in the field of AC electrical circuit analysis It begins with basic RL and RC operation and progresses through phasors to AC series parallel and series parallel circuit configurations It also includes experiments focusing on the superposition technique Th venin s Theorem maximum power transfer and series and parallel resonance An introductory oscilloscope exercise is included using either a two or four channel digital oscilloscope Each experiment includes a theory overview electrical component parts list and test equipment inventory Most exercises may be completed with just a digital multimeter two channel oscilloscope and an AC function generator This is the print version of the on line Open Educational Resource      Lab Manual to Accompany Dc/ac Circuits and Electronics Kevin Taylor,2003

**Electronics Fundamentals** Richard Jinbo,Lois Fouse,2000      *PC Lab, DC and AC Circuits* Gregory J. McMillan,1991

Modern Elements of Dc/Ac Circuits-Lab Manual Solutions Mnl Antonakos,2007-06      **AC Electrical Circuits** James Fiore,2018-07-23 An essential resource for both students and teachers alike this AC Electrical Circuits Workbook contains over 500 problems spread across ten chapters Each chapter begins with an overview of the relevant theory and includes exercises focused on specific kinds of circuit problems such as Analysis Design Challenge and Computer Simulation An Appendix offers the answers to the odd numbered Analysis and Design exercises Chapter topics include series parallel and series parallel RLC circuits analysis techniques such as superposition source conversions mesh analysis nodal analysis Th venin s and Norton s theorems and delta wye conversions plus series and parallel resonance dependent sources polyphase power magnetic circuits and more This is the print version of the on line OER      *Unit II, AC Circuits* Nida Corp,1998      *AC Circuits* Nida Corporation,1991      Spl Terrell,2000-10      **Lab Manual for Introductory Circuit Analysis** Robert Boylestad,Brian Olivari,2022-07-24 For courses in DC AC circuits conventional flow The latest insights in circuit analysis with detailed calculation guidance Introductory Circuit Analysis has been the number one acclaimed text in the field for over 50 years Boylestad presents complex subject matter clearly and with an eye on practical applications He provides detailed guidance in using the TI 89 Titanium calculator the choice for this text to perform all the required math techniques Challenging chapter ending review questions help learners build confidence and comprehension Updated with the most current relevant content the 14th Edition places greater emphasis on fundamentals and has been redesigned with a more modern accessible layout Hallmark features of this title Coverage with direct applications Clear detailed guidance in using the TI 89 Titanium calculator helps students perform the required math techniques without having to refer to the calculator manual In some cases short cut methods are introduced Computer sections demonstrate how the computer can be used as lab equipment Engaging practice Problem sections at the end of each chapter reinforce understanding of major concepts New and updated features of this title Emphasis on fundamentals REVISED The new edition turns attention to fundamental

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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

**Basic Electricity/electronics**

Nida Corporation,1991

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