



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

Physics 241/261

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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

Ac Circuits Lab Manual

S Ben Porath



Ac Circuits Lab Manual:

AC Circuits Lab Manual Wayne M. Hope, 2001-01-01 **Modern Elements of Dc/Ac Circuits-Lab Manual Solutions**
Mnl Antonakos, 2007-06 **Electronics Fundamentals** Richard Jinbo, Lois Fouse, 2000 **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 *PC Lab, DC and AC Circuits* Gregory J.
McMillan, 1991 *Lab Manual to Accompany Dc/ac Circuits and Electronics* Kevin Taylor, 2003 Spl Terrell, 2000-10
Engineering Practices Lab Manual - 5Th E T Jeyapoovan Nadar, Engineering Practices Lab Manual covers all the basic
engineering lab practices in the Civil Mechanical Electrical and Electronics areas The manual details the various tools to be
used and exercises to be practiced in the application of engineering practices in each field **AC Circuits** Nida
Corporation, 1991 **Laboratory Manual for Introductory Electronics Experiments** L. K. Maheshwari, M. M. S.
Anand, 1979

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