

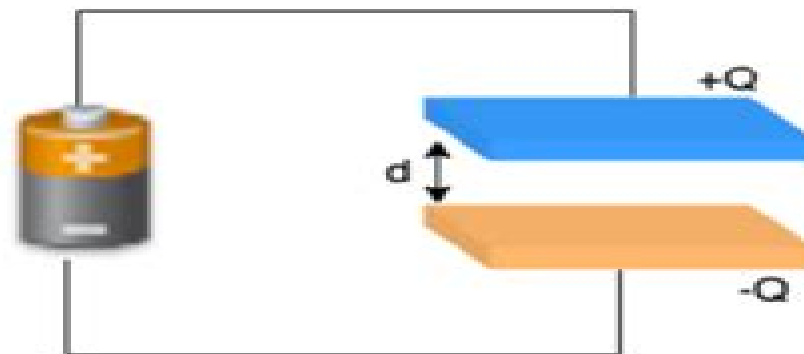
# Capacitors Lab Online

## Purpose

The purpose of this activity is to examine how the applied voltage and the basic geometry of a two plate capacitor affects things such as how much charge the capacitor is holding, the amount of electrical energy stored in the capacitor, and the electric field between the two plates.

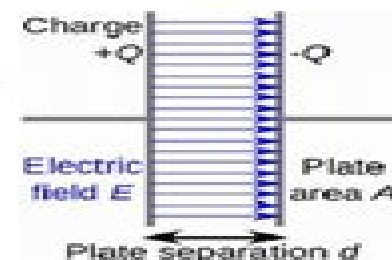
## Theory

A simple two plate capacitor consists of two plates of the same area  $A$ , separated by a distance  $d$ . When one of these plates is connected to the positive side of a potential difference source  $\Delta V$ , and the other plate is connected to the negative side of the potential difference source, then a charge  $Q$  builds up on each plate. A positive charge will build up on the plate connected to the positive side of the potential difference source, and a negative charge will build up on the plate connected to the negative side of the potential difference source. As shown in the diagram to the right.



The ratio of the magnitude of charge that builds up either plate and the potential difference that is applied to the plates gives a term called the capacitance  $C$  of the capacitor. The SI units of capacitance are Farads, F.

As we already know electric charges generate electric fields, and the electric charges built the two plates of the capacitor are no different. Since the two charges are of the same magnitude  $Q$ , and separated by a constant distance  $d$ , a uniform electric field is generated between the two plates. Here we are ignoring what is called the fringe effects, meaning the electric field at the edges of the two plates and beyond. In the diagram to the right, we can see that the electric field points from the positively charged plate towards the negatively charged plate.



# Lab Manual For Capacitor

**Rachel Sandford**



## Lab Manual For Capacitor:

*Laboratory Manual for Introductory Electronics Experiments* L. K. Maheshwari, M. M. S. Anand, 1979      Radio Receiver Laboratory Manual Alex W. Levey, 1956      **EP363/P360 Course Notes and Laboratory Manual** Raphael Littauer, 1985

**DC-AC Laboratory Manual** Thomas C. Power, 1969      **Laboratory Manual for Use with Electricity and Electronics** Dale R. Patrick, William Dugger, 1996      *Laboratory Manual to Accompany Physics* Arthur Beiser, Paul Robinson, Beiser, 1991      **Laboratory Manual for Electronics via Waveform Analysis** Edwin C. Craig, 2012-12-06

To the Instructor The purpose of this laboratory manual is not just to help students to set up electronic circuits that function as they should The important thing is the electronic concepts that the student learns in the process of setting up and studying these circuits Quite often a student learns more electronics when he has to trouble shoot a circuit than when the circuit performs as it should when first built It is unlikely that any students would be able to complete all of these experiments in one semester The author believes that all students should have laboratory experiences with power supplies amplifiers oscillators and integrated circuits Additionallabomtory experiments should be de termined by the instructor Therefore you can choose those that you want done Some students are more efficient in the labomtory than others Therefore some would be able to complete more exper iments in a semester than others Also many of these experiments cannot be completed in one two hour laboratory period If space is available the circuits could be left intact from one period to the next Or you might want to select steps in an experiment that you want to delete Neither the val ues of the components or the magnitudes of the power supplies as given in the instructions are critical Therefore you could in most cases change them if the ones recommended are not available

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction      *Laboratory Manual to Accompany the Textbook Fundamentals of Semiconductor and Tube Electronics* Harry Alex Romanowitz, 1962      *Laboratory Manual for Electronic Devices and Circuits* David A. Bell, 2001 This lab manual accompanies *Electronic Devices and Circuits 4 e*      *Laboratory Manual [in] Engineering Physics ...* Seville Chapman, 1947      Lab Manual for Electronics Martin Feldman, 2001-11 The emphasis is first on understanding the characteristics of basic circuits including resistors capacitors diodes and bipolar and field effect transistors The readers then use this understanding to construct more complex circuits such as power supplies differential amplifiers tuned circuit amplifiers a transistor curve tracer and a digital voltmeter In addition readers are exposed to special topics of current interest such as the propagation and detection of signals through fiber optics the use of Van der Pauw patterns for precise linewidth measurements and high gain amplifiers based on active loads

KEY TOPICS

Chapter topics include Thevenin's Theorem Resistive Voltage Division Silicon Diodes Resistor Capacitor Circuits Half Wave Rectifiers DC Power Supplies Diode Applications Bipolar Transistors Field Effect Transistors Characterization of Op Amp Circuits Transistor Curve Tracer Introduction to PSPICE and AC Voltage Dividers Characterization and Design of Emitter and Source Followers Characterization and Design of an AC Variable Gain Amplifier Design of Test Circuits for BJT's and FET's and Design of FET Ring Oscillators Design and Characterization of Emitter Coupled Transistor Pairs Tuned Amplifier and Oscillator Design of AM Radio Frequency Transmitter and Receiver Design of Oscillators Using Op Amps Current Mirrors and Active Loads Sheet Resistance Design of Analog Fiber Optic Transmission System Digital Voltmeter      **Laboratory Manual for Electronic Instrumentation** Earle B. Brown, 1968      **Laboratory Manual** Tony Cook, 1998-12-03      **Physics Laboratory** Mr. Rohit Manglik, 2023-06-23 Experimental physics course covering optics mechanics electronics and thermodynamics using standard lab equipment      *Laboratory Manual to Accompany Electronic Communications Systems* Wayne Tomasi, 2000-07      *Electrical Engineering Laboratory Manual* Stanley Parker Smith, 1936      **Electronics Laboratory Manual** Bernard G. Peltz, 1964      *Modern Physics Laboratory Manual* Lester L. Skolil, Louis E. Smith, 1973-06      **Laboratory Manual for Transistor and Semiconductor Devices** Robert F. Coughlin, 1968

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