

## Chapter 14

### CAPACITORS IN AC AND DC CIRCUITS

So far, all we have discussed have been electrical elements in which the voltage across the element is proportional to the current through the element (i.e., elements like the resistor that obey Ohm's Law). There are electrical elements that do not follow this pattern. One of these elements is the capacitor--a critter that has very different characteristics when found in an AC circuit as opposed to a DC circuit. This chapter is devoted to that lowly creature.

#### A.) Capacitors in General:

1.) The circuit symbol for the capacitor (see Figures 14.1a and 14.1b) evokes a feeling for what a capacitor really is. Physically, it is no more than two plates (the symbol depicts the side view) *that do not touch* (there is normally insulation placed between the two plates to insure no contact). In other words, a capacitor in a circuit technically effects a break in the circuit.



**Note:** Although there are AC capacitors made to take high voltage at either terminal, DC capacitors have definite high and low voltage sides. When a designer of circuitry wants to specify a DC capacitor, he or she uses the symbol shown in Figure 14.1b. The *straight side* of that symbol is designated the *high voltage side* (the positive terminal) while the *curved side* is designated the *low voltage side*. We will use either symbol in DC situations.

2.) A circuit element that does not allow charge to freely flow through it probably sounds like a fairly useless device. In fact, capacitors do allow current to flow in the circuit under the right conditions.

3.) Consider a circuit in which there is an initially uncharged capacitor, a DC power supply, a resistor, and an initially open switch (this is commonly called an *RC circuit*).

a.) When the switch is first closed, neither plate has charge on it. This means there is no voltage difference between the two. As the right-hand

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