

Section 7

DOES ALL MATTER CONTAIN CHARGE? WHAT ARE ELECTRONS?

INTRODUCTION

This section uses a new kind of bulb to resolve some basic questions: Do insulators contain charge? If so, is it ever mobile? What carries charge through the connecting wires and the battery? What carries charge through a lit neon bulb?

INVESTIGATION ONE: A NEW BULB AND A NEW CIRCUIT

7.1 Activity: A new kind of bulb

1. Consider the following circuit (Figure 7.1a), which your teacher will assemble. This is a very familiar circuit, except that --

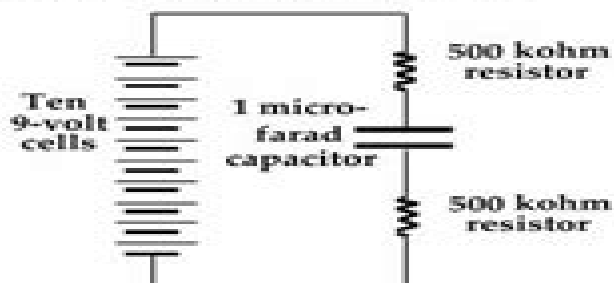


Figure 7.1a

RESISTOR AND CAPACITOR CIRCUIT

- the low voltage battery has been replaced by a high voltage battery (90 volts)
- the two bulbs have been replaced by resistors that will not be burned out
- the resistors have a much higher resistance than the bulbs (about 10,000 times that of a long bulb)
- the 25,000 microfarad capacitor has been replaced by a smaller 1 microfarad capacitor with a higher voltage rating

2. What will the value of the final steady voltage across the capacitor after a long time has passed.

3. Based on the relative values of the resistances and the capacitance, and comparing this circuit with your familiar circuit using two long bulbs and a 25,000 microfarad capacitor, about how long would you estimate it would take to establish this voltage?

4. Now we will modify the circuit by adding a new kind of bulb, a neon bulb, in parallel with the capacitor as in Figure 7.1b.

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