



Physics 213

General Physics

Lecture 6



Last Meeting: Current, Resistance,
and Power

Today: Resistor Networks, Direct-
Current Circuits

Devices

- Resistors:



Purpose is to limit current drawn in a circuit.

» Resistance can be calculated from knowledge of the geometry of the resistor AND the “resistivity” of the material out of which it is made.

- Resistance

- Remember?

Resistance is defined to be the ratio of the applied voltage to the current passing through.

$$R \equiv \frac{V}{I}$$

$$\text{Unit: OHM} = \frac{\text{VOLT}}{\text{AMPERE}}$$

