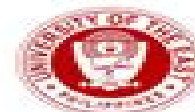


GENERAL PHYSICS 2

NOTES/REVIEWER



2ND SEMESTER – WEEK 11 NOTES

OUTLINE

- I. Current, Resistivity, and Resistance
 - A. Current
 - i. Sample Problems
 - B. Resistance
 - i. Factors affecting the resistance of a wire
 - ii. Sample Problems
 - C. Cross-sectional Area of a Wire
 - i. Sample Problems
- II. Ohm's Law
 - A. Sample Problems
- III. Energy and Power in Electric Circuits
 - A. EMF vs. PD
 - i. EMF Derivation
 - ii. Sample Problems
 - B. Equations for solving energy and power of a circuit
 - i. Sample problems

CURRENT, RESISTIVITY, AND RESISTANCE

CURRENT

- **Electric current**
 - Rate at which charges flow through a surface.
 - Symbol: I
 - SI Unit: Ampere (A)
 - Scalar
 - Fundamental
 - Usually measured in mA = milli ampere = $\times 10^{-3}$
- $$I = \frac{Q}{t}$$
- I – electric current (in Ampere) Δ
 Q – charge (in Coulomb)
 t – time it takes for the charges to flow (in seconds)
- **Conventional current**
 - Charges that moves are the protons (+)
 - Comes from the positive terminal of the battery and goes to the negative terminal.
 - **Real current (Electron flow)**
 - Negative charges are the ones that move which come from the negative terminal, moves through the wire, and goes to the positive terminal of the battery
 - **Direct Current**
 - A form of electricity that flows in one direction.
 - Sources are batteries and dry cells.
 - One directional = Doesn't loop.
 - **Circuit Load**
 - Any device that provides extra resistance.
 - **Alternating Current**
 - Flows first in one direction and then the other.
 - **Ammeter**
 - An ammeter is used to measure current.
 - In line with the bulb, all the charge passing through the bulb also must pass through the meter.

SAMPLE PROBLEM NO.1

How many electrons flow through a light bulb each second if the current through the light bulb is 0.75 A?

- **Given**
 - $I = 0.75 \text{ A}$
 - $t = 1 \text{ s}$
 - $e = -1.602 \times 10^{-19}$
- **Required**
 - No of electrons = ?
- **Equation**
 - No of electrons = Q/e
 - Other equation: $Q = It$
- **Solution 1**
 - $Q = (0.75 \text{ A})(1 \text{ s})$
- **Answer 1**
 - $Q = 0.75 \text{ C}$
- **Solution 2**
 - No. of electrons = $0.75 \text{ C} / 1.602 \times 10^{-19} \text{ C}$
- **Answer 2**
 - No. of electrons = 4×10^{18}

SAMPLE PROBLEM NO. 2

A steady flow of 0.5 A flows through a wire. How much charge passes through it in one hour?

- **Given**
 - $I = 0.5 \text{ A}$
 - $t = 3600 \text{ s}$
- **Required**
 - $Q = ?$
- **Equation**
 - $Q = It$
- **Solution**
 - $Q = (0.5 \text{ A})(3600 \text{ s})$
- **Answer**
 - $Q = 1800 \text{ C}$

RESISTANCE

- **Resistance**
 - A property of an electric circuit or part of a circuit that transforms electric energy into heat energy in opposing electric current.
 - Involves collisions of the current-carrying charged particles with fixed particles that make up the structure of the conductors.
 - Symbol: R
 - SI Unit: Ohm (Ω)
 - Scalar
 - Not fundamental.
 - Hindi direktang ang movement ng electrons. Kapag dadaan sila sa wire, mababangge yung fixed particles inside the wire which causes resistance.
 - Greater collision = Greater resistance

FACTORS AFFECTING THE RESISTANCE OF A WIRE

- $R = \frac{\rho L}{A}$ wherein:
 - R = Resistance
 - ρ = Resistivity
 - Dependent on the material.
 - Depends on the temperature.
 - L = Length of the wire

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