

#### IMPORTANT TERMS:

- Alternating current (AC)
- Ampere
- Diode
- Direct current (DC)
- Electric current
- Electric power
- Electric resistance
- Ohm
- Ohm's Law
- Potential difference
- Voltage source

#### EQUATIONS:

$$F = k \frac{q_1 q_2}{d^2}$$

$$\text{Electric potential} = \frac{\text{Electrical potential}}{\text{Charge}}$$

$$1 \text{ Volt} = \frac{\text{Joule}}{\text{Coulomb}}$$

$$\text{current} = \frac{\text{voltage}}{\text{resistance}}$$

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

$$1 \text{ ampere} = 1 \frac{\text{volt}}{\text{ohm}}$$

$$\text{electric energy} = \text{current} \times \text{voltage}$$

## UNIT V: Electricity and Magnetism

### Chapters 32-37

### Chapter 34: Electric Current

#### I. The Flow of Charge (34.1)

A. **Potential Difference**- When there is a difference in potential (voltage), between the ends of a conductor, charge will flow until both ends reach a common potential

1. Much like temperature flows from hot to cold object until they are the same temperature

2. When there is **no potential difference** then **no** longer a flow of Charge through the conductor

B. To maintain a flow of charge in a conductor, a difference in potential must be maintained

1. Analogous to the flow of water from higher reservoir to a lower one

2. A suitable "Pump" must be supplied to maintain difference. (whether we talk about water flowing or flow of charge)

#### II. Electric Current (34.2)

A. **Electric current**- the flow of electric Charge

1. **Solid conductors**- electrons carry the charge through the circuit (electrons are free to move throughout the atomic network)

a. called Conduction electrons

b. **Protons** are in fixed position in nucleus of atom and cannot move about

3. In fluids such as electrolytes (car battery)- **positive and negative** ions as well as electrons may compose the flow of electric charge

B. **Electric current** measured in amperes

1. SI unit is (A) amperes

2. 1A = flow of 1 Coulomb of charge per second

a. Coulomb is standard unit of charge

b. 1 coulomb =  $6.24 \times 10^{18}$  electrons

# Conceptual Physics 34 Electric Current Answers

**Mark I. Montrose**



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