

# AP Physics C: Electricity & Magnetism Study Guide

## Week 1: Electrostatics (24% - 30% of exam)

### Charges & Coulomb's Law:

#### Important Concepts:

- Charges are free to move inside conductors
- Charges are not free to move inside insulators
- A grounded can act as either a source of  $+$  or a storage location for  $+$
- Glass is positively charged whilst rubber is negatively charged

#### Formulas:

- $V(r) = \frac{1}{4\pi\epsilon_0} \left( \frac{Q}{r} \right)$  (coulombic formula)
- $E = \frac{V}{d}$

#### Examples:

- E-Field Lines Due To Like Charges:



- +Q Positive Particle (Repels) Negative Particle



### Electric Field:

#### Important Concepts:

- E-Field lines always point in the direction of decreasing electric potential
- E-Fields start at positive charges and end at negative charges

#### Formulas:

- $E_{\text{net}} = -\frac{dV}{dx}$  (E-Field in terms of potential)
- $E = \frac{1}{4\pi\epsilon_0} \int \frac{dq}{r^2}$  (general form)
- $E = \rho J$  (E-Field in terms of resistivity and current density)

#### Examples:

- Uniformly Charged Semicircle:

$$E = \frac{1}{4\pi\epsilon_0} \int \frac{dq}{r^2} \cos\theta$$

$$\lambda = \frac{Q}{2a}; da = r d\theta \rightarrow dQ = \lambda da$$

$$E = \frac{1}{4\pi\epsilon_0} \int \frac{\lambda da}{r^2} \cos\theta = \frac{\lambda}{4\pi\epsilon_0} \int \frac{da}{r^2} \cos\theta = \frac{\lambda}{4\pi\epsilon_0} \left[ -\cos\theta \right]_0^\pi = \frac{\lambda}{4\pi\epsilon_0} [-(-1) - (-1)] = \frac{\lambda}{2\pi\epsilon_0}$$

- Uniformly Charged Ring:



$$E = \frac{1}{4\pi\epsilon_0} \int \frac{dq}{r^2} \cos\theta$$

$$\cos\theta = \frac{x}{r}$$

$$E = \frac{1}{4\pi\epsilon_0} \int \frac{dq}{r^2} \left( \frac{x}{r} \right) = \frac{x}{4\pi\epsilon_0} \int \frac{dq}{r^3} = \frac{x}{4\pi\epsilon_0} \int \frac{da}{r^3}$$

$$r = \sqrt{a^2 + x^2}$$

$$E = \frac{x}{4\pi\epsilon_0} \int \frac{da}{(a^2 + x^2)^{3/2}}$$

# Ap Physics Study Guide

**Christopher Bruhn**



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