

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:

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

Examples:

- E-Field Lines Due To Like Charges:



- + & - Parallel Plates (Remember: Opposite Attraction)



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:

- $E_x = -\frac{\partial V}{\partial x}$ (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:

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

$$dq = \lambda ds; ds = r d\theta \rightarrow dq = \lambda r d\theta$$

$$E = \frac{1}{4\pi\epsilon_0} \int \frac{\lambda r}{r^2} \cos\theta d\theta = \frac{\lambda}{4\pi\epsilon_0} \int \cos\theta d\theta = \frac{\lambda}{4\pi\epsilon_0} [-\sin\theta]_{-\pi/2}^{\pi/2} = \frac{\lambda}{4\pi\epsilon_0} [-(-1) - (-1)] = \frac{\lambda}{2\pi\epsilon_0}$$

- Non-Uniformly Charged Ring:



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

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

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

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

$$E = \frac{\lambda x}{4\pi\epsilon_0 R^2 \sqrt{R^2 + x^2}}$$

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Marybeth Kravets,Imy F. Wax



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