

AP Physics C: Mechanics: Formula Sheet

I	II	III	IV	V	VI
Uniform fields or nonlinear fields that are drawn.	Point charge q superposition	Sphere with charge Q and sphere within a sphere	Arc with Point P at center of the arc	Hoop with P offset along an axis passing thru center	Cylinder
E given (or V is given)	All four of these problems use the same equation derived from Gauss's Law				$\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$
If V is given instead of E	$\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$				$E(2\pi r l) = \frac{Q_{enc}}{\epsilon_0}$
you can use the equation $E = -\frac{dV}{dr}$ to solve for E .	Use $E = k\frac{q}{r^2}$ to find All the individual E_i vectors due to each charge q_i acting a point P. Add all the individual E_i vectors to find the total electric field E .	Use $E = k\frac{Q_{enc}}{r^2}$ to find E at various points (inside the sphere $r < R$, on its surface $r = R$, and outside the sphere $r > R$).	$E = k\frac{Q}{r^2}$ $dE = k\frac{dq}{r^2}$ $\int dE_x = \int k\frac{dq}{r^2} \cos \theta$	$E = k\frac{Q}{r^2}$ $dE = k\frac{dq}{r^2}$ $\int dE_x = \int k\frac{dq}{r^2} \cos \theta$	$E = \frac{Q_{enc}}{2\pi r l \epsilon_0}$ $\lambda = \frac{Q}{L}$ $E = \frac{\lambda}{2\pi r \epsilon_0}$
Usually these problems involve uniform fields or when non-uniform they allow you to find average E between two equal potential line values.	If a new charge appears at point P, then you can find the force on the new charge due to the field E . $F_E = q_{new} E_{total}$	$r < R$ in an insulator $\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$ $\frac{Q_{enc}}{\left(\frac{4}{3}\right)\pi r^3} = \frac{Q_{total}}{\left(\frac{4}{3}\right)\pi R^3}$	Density $\lambda = \frac{Q}{L} = \frac{dq}{dl}$ $E_x = \int \frac{kQ}{r^2 L} dl \cos \theta$ $r = R$ Arc length $dl = R d\theta$ $E_x = \int \frac{kQ}{RL} \cos \theta d\theta$ $E_x = \frac{kQ}{RL} \int_{\theta_1}^{\theta_2} \cos \theta d\theta$ $E_x = \frac{kQ}{RL} (\sin \theta_2 - \sin \theta_1)$	$E_x = \frac{k}{r^2} \cos \theta \int dq$ $E_x = \frac{kQ}{r^2} \cos \theta$ $\cos \theta = \frac{r}{\sqrt{R^2 + x^2}}$ $E_x = \frac{kQx}{(R^2 + x^2)^{3/2}}$	$r < R$ in an insulator $\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$ $\frac{Q_{enc}}{\pi r^2 L} = \frac{Q_{total}}{\pi R^2 L}$
$E = \frac{V}{d}$					

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Table of Contents Ap Physics C Study Guide

1. Understanding the eBook Ap Physics C Study Guide
 - The Rise of Digital Reading Ap Physics C Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Physics C Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Physics C Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Physics C Study Guide

- Personalized Recommendations
 - Ap Physics C Study Guide User Reviews and Ratings
 - Ap Physics C Study Guide and Bestseller Lists
5. Accessing Ap Physics C Study Guide Free and Paid eBooks
 - Ap Physics C Study Guide Public Domain eBooks
 - Ap Physics C Study Guide eBook Subscription Services
 - Ap Physics C Study Guide Budget-Friendly Options
 6. Navigating Ap Physics C Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Physics C Study Guide Compatibility with Devices
 - Ap Physics C Study Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Physics C Study Guide
 - Highlighting and Note-Taking Ap Physics C Study Guide
 - Interactive Elements Ap Physics C Study Guide
 8. Staying Engaged with Ap Physics C Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Physics C Study Guide
 9. Balancing eBooks and Physical Books Ap Physics C Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Physics C Study Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Ap Physics C Study Guide
 - Setting Reading Goals Ap Physics C Study Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Ap Physics C Study Guide

- Fact-Checking eBook Content of Ap Physics C Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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