

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 $\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$ $E(4\pi r^2) = \frac{Q_{enc}}{\epsilon_0}$ $E = \frac{1}{4\pi\epsilon_0} \frac{Q_{enc}}{r^2}$ $k = \frac{1}{4\pi\epsilon_0}$				$\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$
If V is given instead of 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 $r > R$).	$E = k \frac{Q}{r^2}$ $dE = k \frac{dq}{r^2}$ $\int dE_x = \int k \frac{dq}{r^2} \cos \theta$ Density $\lambda = \frac{Q}{L} = \frac{dq}{dl}$ $E_x = \int \frac{kQ}{r^2 L} dl \cos \theta$ $r = R$ Arc length $dl = R d\theta$ $E_x = \int \frac{kQ}{RL} \cos \theta d\theta$ $E_x = \frac{kQ}{RL} \int_{\theta_1}^{\theta_2} \cos \theta d\theta$ $E_x = \frac{kQ}{RL} (\sin \theta_2 - \sin \theta_1)$	$E = k \frac{Q}{r^2}$ $dE = k \frac{dq}{r^2}$ $\int dE_x = \int k \frac{dq}{r^2} \cos \theta$ $E_x = \frac{k}{r^2} \cos \theta \int dq$ $E_x = \frac{kQ}{r^2} \cos \theta$ $\cos \theta = \frac{r}{R}$ and $r = \sqrt{R^2 + x^2}$ $E_x = \frac{kQx}{(R^2 + x^2)^{3/2}}$	$E(2\pi r l) = \frac{Q_{enc}}{\epsilon_0}$ $E = \frac{Q_{enc}}{2\pi r l \epsilon_0}$ $\lambda = \frac{Q}{L}$ $E = \frac{\lambda}{2\pi r \epsilon_0}$
you can use the equation $E = -\frac{dV}{dr}$ to solve for E . Usually these problems involve uniform fields or when non-uniform they allow you to find average E between two equal potential line values. $E = \frac{V}{d}$	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 $\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$ $\frac{Q_{enc}}{(\frac{4}{3})\pi r^3} = \frac{Q_{total}}{(\frac{4}{3})\pi R^3}$			$r < R$ in an insulator $\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$ $\frac{Q_{enc}}{\pi r^2 L} = \frac{Q_{total}}{\pi R^2 L}$

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web engine model and ddec ii ddec iii serial number engine identification designation detroit diesel electronic control ddec systems are available as stan the engine serial number and model dard or optional items on many series number are stamped on the cylinder 92 engine models

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web may 22 2019 figure 1 ddec iii system series 50 diesel figure 2 ddec iii system series 50 natural gas any faults that occur are stored as codes in the ecm s memory these codes can be accessed in any of three ways a ddr can be used to read the codes see figure the ddr and printer

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web appendix a codes the codelisted may not be used in all applications a default value in the normal operating range is used by the ecu to provide for engine operation if a sensor failure is present ddc code j1939 j1587 flashed spn pid sid fmi description 240 2 fram checksum incorrect 240 13 tpu checksum incorrect

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