

Solutions Manual

prepared by
E. M. Purcell
to accompany

**electricity
and
magnetism**

Berkeley Physics Course—Vol. II

Edward M. Purcell
Professor of Physics
Harvard University

1.8 ... because the arrow has been built from the left as

... a series ...

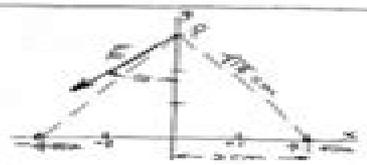
$$-\frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \dots = -\frac{1}{2} [1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \dots]$$
 The expansion of $\ln(1+x)$ is $1 - \frac{x}{2} + \frac{x^2}{3} - \dots$ converging for $|x| < 1$. Evidently the sum in brackets above is just $\ln 2$, or 0.693 . Thus the energy of the chain, 100 eV , is $-0.693 \frac{Q^2}{2}$.

1.9 The charge in the sphere of radius r is: $q = \frac{Q}{4\pi a^3} r^3$. Its external field is the same as if q were at the center. The next shell to be added contains charge dq .
 $dg = 4\pi r^2 dr \rho$. The work done in bringing up dg is therefore:
 $dW = \frac{1}{4\pi\epsilon_0} \frac{q dg}{r^2} = \frac{Q^2}{16\pi\epsilon_0 a^3} r^2 dr$. Building up the whole sphere this way requires the work:
 $W = \int_0^a \frac{Q^2}{16\pi\epsilon_0 a^3} r^2 dr = \frac{Q^2}{16\pi\epsilon_0 a^3} \frac{a^3}{3}$. The charge in the complete sphere is: $Q = \frac{4}{3}\pi a^3 \rho$. Thus the potential energy U , which is the same as W , can be written: $U = \frac{3}{5} \frac{Q^2}{4\pi\epsilon_0 a}$. Notice that Q/a has the proper dimensions Energy/distance. Indeed we



1.11 ... The decrease in energy is $U - 2U'$
 $U - 2U' = \frac{1}{2} \frac{Q^2}{4\pi\epsilon_0 a} [1 - \frac{2}{3}] = \frac{1}{6} \frac{Q^2}{4\pi\epsilon_0 a} (1 - \frac{2}{3}) = .222 \frac{Q^2}{4\pi\epsilon_0 a}$
 With $Q = 10^{-8} \text{ C}$, a is determined by $\frac{1}{4\pi\epsilon_0} \frac{Q^2}{a^2} = 10$, from which $a/a = (\frac{1}{4\pi\epsilon_0})^{1/2} \frac{Q}{10}$. Thus:
 $U - 2U' = .222 [\frac{1}{4\pi\epsilon_0} \frac{Q^2}{a^2}]^{1/2} [92 - 48.10^4]^{1/2} = 6.7 \cdot 10^{-6} \text{ erg}$
 $1 \text{ MeV} = 1.6 \cdot 10^{-6} \text{ erg}$. Hence $U - 2U' = 4.20 \text{ MeV}$.

1.12 At the point P:
 $E_x = -\frac{1}{4\pi\epsilon_0} \frac{Q}{R^2} - \frac{1}{4\pi\epsilon_0} \frac{Q}{R^2}$
 $= -\frac{2Q}{4\pi\epsilon_0 R^2}$
 $E_y = \frac{1}{4\pi\epsilon_0} \frac{Q}{R^2} - \frac{1}{4\pi\epsilon_0} \frac{Q}{R^2}$
 $= -\frac{Q}{4\pi\epsilon_0 R^2}$
 $E = (E_x^2 + E_y^2)^{1/2} = (\frac{4Q^2}{16\pi^2\epsilon_0^2 R^4} + \frac{Q^2}{16\pi^2\epsilon_0^2 R^4})^{1/2} = \frac{Q}{4\pi\epsilon_0 R^2} \sqrt{5} = 0.228 \text{ statvolts/cm}$
 $\theta = \tan^{-1} \frac{E_y}{E_x} = 45^\circ$
 A point where the field is zero must lie on the x-axis, nearer the smaller of the two charges, but not between them. The condition is also



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A. B. Bhattacharya, Atanu Nag



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