

Chapter 21: Electrostatics

In-Class Exercises

21.1.a + 21.2.a + 21.3.a + 21.4.a + 21.5.a + 21.6.b + 21.7.a + 21.8.a + 21.9.a + 21.10.a

Multiple Choice

21.1.b + 21.2.b + 21.3.b + 21.4.a + 21.5.b + 21.6.b + 21.7.a + 21.8.a + 21.9.a + 21.10.b

Questions

21.11. The given quantities are the charge of the two particles, $Q_1 = Q$ and $Q_2 = Q$. They are separated by a distance d . The Coulomb force between the charged particles is $F = k \frac{Q_1 Q_2}{d^2} = k \frac{Q^2}{d^2}$. If the charge on each particle is doubled so that $Q'_1 = 2Q$ and $Q'_2 = 2Q$ and the separation distance is $d' = 2d$ then the Coulomb force is given by: $F' = k \frac{Q'^2}{d'^2} = k \frac{Q^2}{d^2}$ so the force is the same as it was in the initial situation.

21.12. The gravitational force between the Sun and the Earth is $F_g = G \frac{M_s M_e}{r^2}$, where G is the gravitational constant and is equal to $6.67 \cdot 10^{-11} \text{ N m}^2 / \text{kg}^2$. M_s is the mass of the Sun ($1.989 \cdot 10^{30} \text{ kg}$) and M_e is the mass of the Earth ($5.974 \cdot 10^{24} \text{ kg}$). The Coulomb force is given by the equation $F_c = k \frac{Q_1 Q_2}{r^2}$, where k is Coulomb's constant ($k = 8.99 \cdot 10^9 \text{ N m}^2 / \text{C}^2$). In this question $Q_1 = Q_2 = Q$ and is the charge given to the Earth and Sun to cancel out the gravitational force.

$$F_c = F_g \Rightarrow \frac{kQ^2}{r^2} = \frac{GM_s M_e}{r^2} \Rightarrow Q = \sqrt{\frac{G}{k}} M_s M_e$$

Therefore,

$$Q = \sqrt{\frac{(6.67 \cdot 10^{-11} \text{ N m}^2 / \text{kg}^2)(1.989 \cdot 10^{30} \text{ kg})(5.974 \cdot 10^{24} \text{ kg})}{8.99 \cdot 10^9 \text{ N m}^2 / \text{C}^2}} = 2.97 \cdot 10^7 \text{ C}.$$

I can get the number of elementary charges, n , by dividing Q by $1.602 \cdot 10^{-19} \text{ C}$ (the charge of one electron):

$$n = \frac{2.97 \cdot 10^7 \text{ C}}{1.602 \cdot 10^{-19} \text{ C}} = 1.85 \cdot 10^{26}.$$

To estimate the number of elementary charge of either sign for the Earth I can assume the mass of the Earth is due to the mass of the protons, neutrons and electrons of which it is primarily composed. If I assume that the Earth's mass is due to the proton and neutron masses primarily (because an electron's mass is much smaller than a proton's) and I assume that there are an equal number of protons and neutrons then I can get the number of protons by dividing the Earth's mass by two times the mass of a proton. The mass of a proton is $m_p = 1.6726 \cdot 10^{-27} \text{ kg}$, so you can estimate

the number of elementary charges on the Earth, n_e , by $n_e = \frac{m_E}{m_p} = \frac{5.97 \cdot 10^{24} \text{ kg}}{1.67 \cdot 10^{-27} \text{ kg}} = 3.57 \cdot 10^{49}$. So the percentage of the Earth's charges that would be required to cancel out the gravitational force is $(n/n_e) \cdot 100\% = 5.18 \cdot 10^{-23}\%$, a very small percentage.

21.13. One reason that it took such a long time to understand the electrostatic force may have been because it was not observed as frequently as the gravitational force. All massive objects are acted on

Physics 1chapter 21 Electrostatics Reading Question

Siddappa N.Byrareddy



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