

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 , by $n = \frac{m_E}{m_p} = \frac{5.97 \cdot 10^{24} \text{ kg}}{1.67 \cdot 10^{-27} \text{ kg}} = 3.57 \cdot 10^{49}$. So the

percentage of the Earth's charges that would be required to cancel out the gravitational force is $(n/n_1) \cdot 100\% = 5.18 \cdot 10^{-22}\%$, 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

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