#### Chapter 21: Electrostatics

#### In-Class Exercises

21. L. d. 21. Z. o. 21. L. o. 21. L. o. 21. L. o. 21. T. o. 21. T. o. 21. H. o. 21. T. o. 21. T.

#### Multiple Choice

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#### Operations:

- 21.81. The given quantities are the charge of the two particles, Q, = Q and Q, = Q. They are reparated by a distance of. The Coulomb force between the changed particles in F = 1 Q Q = Q , 2f the change on each particle in shoulded so that Q = 2Q = Q and the reparation distance is o' = 2F the them the Coulomb Force is given by: F' = 1 4Q' = 1 Q' so the force is the same as it was in the initial attraction.
- 23.52. The gravitational focus between the foot and the Earth in F<sub>a</sub> = G M<sub>B</sub>M<sub>A</sub>, where G is the gravitational constant and in equal to 6.67-10° N m<sup>2</sup>/kg<sup>3</sup>, M<sub>a</sub> in the mass of the Sum (1.989-10° kg) and M<sub>a</sub> is the mass of the Earth (5.974-10° kg). The Coulomb focus is given by the equation F<sub>a</sub> = 4 M<sub>B</sub>A, where k is Coulomb's constant (k = 8.99-10° N m<sup>2</sup>/C°), in this question Q<sub>i</sub> = Q<sub>i</sub> = Q and is the charge given to the Earth and Sun to cancel out the gravitational large.

Thursday.

$$Q = \sqrt{\frac{(6.87 \cdot 10^{-11} \cdot N \cdot m^2 \cdot kg^2)(0.389 \cdot 10^{11} \cdot kg00.974 \cdot 10^{11} \cdot kg0}{6.99 \cdot 10^2 \cdot N \cdot m^2 \cdot C^2}} \times 2.97 \cdot 10^2 \cdot C.$$

I can get the number of elementary charges, s, by dividing Q by 1.802-1075 C (the charge of one electrons):

$$a = \frac{2.97 \cdot 10^{11} \text{ C}}{1.002 \cdot 10^{12} \text{ C}} = 1.03 \cdot 10^{11}$$

To estimate the number of elementary change 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 ecutron masses primarily composed as electrons mass in much smaller than a protonn) and I assume that there are an equal number of protons and evistrons than 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, a 1.6726-35. The number of protons and exist.

the number of elementary charges on the Earth,  $s_s$  by:  $s_s = \frac{m_s}{m_s} + \frac{5.97 \cdot 10^{11} \text{ kg}}{1.67 \cdot 10^{11} \text{ kg}} = 3.57 \cdot 10^{11}$ . So the

percentage of the Earth's changes that would be required to cancel out the gravitational force is (a. ). HOTE--5.10-00 TVs, 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 at the gravitational force. All massive objects are acted on

# **Physics 1chapter 21 Electrostatics Reading Question**

**C Cleary** 

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