

Notes: Jan. 3 and 4, 2005 – Prelude to Electricity.

$$\begin{aligned} 4 \text{ cm} &= 4 \times 10^{-2} \text{ m} \\ 4 \text{ mm} &= 4 \times 10^{-3} \text{ m} \\ 4 \mu\text{m} &= 4 \times 10^{-6} \text{ m} \\ &\quad \swarrow \text{micro} \end{aligned}$$

More About Protons and Electrons:

Basic charge: Charge is quantized – can't be just any charge.
Has to be multiple of $e = 1.602 \times 10^{-19} \text{ C}$ ($1e = 1$ proton, $-1e = 1$ electron).

Q: Could you have a charge of $-2.02 \times 10^{-19} \text{ C}$? No – not a multi. of e ($-1.602 \times 10^{-19} \text{ C}$)

Ex. – Calculate the number of electrons gained or lost on a 5.4 coulomb object.

1 electron (e) = $-1.602 \times 10^{-19} \text{ C}$ (so just do a conversion):

$$\frac{5.4 \text{ C}}{1} \left(\frac{1 \text{ electron}}{-1.602 \times 10^{-19} \text{ C}} \right) = -3.37 \times 10^{19} \text{ electrons} \leftarrow \begin{array}{l} \text{pos. charge} \\ \text{means lost} \\ \text{electrons.} \end{array}$$

Practice 1: How much charge do $2,356$ electrons have?

$$\left(\frac{2,356 \text{ electrons}}{1} \right) \left(\frac{-1.602 \times 10^{-19} \text{ C}}{1 \text{ electron}} \right) = -3.77 \times 10^{-16} \text{ coulombs}$$

Electric Forces:

Rub a balloon on your hair. It will stick to the wall; make your hair stand up; make water move. Why?

If something moves there must be a force, even if you can't see it.

Field Forces: act at a distance; no contact.

- 1) Gravitational Force – due to mass.
- 2) Electrical Force – due to electrons and protons.
- 3) Magnetic Force – due to magnetic fields due to moving electricity.

All of the above actions are a result of a field force: Electric force: Coulomb's Force.

Where does this force come from? – Negative Electrons and Positive Protons

If neutral (equal # of protons and electrons): no force;

Must be regions of different of charge for a force

Regions of opposite charge: force of attraction (+ and a -): a pull.

Regions of like charge: force of repulsion (- and a -): a push.

This force is, of course, a vector. If there are 2 forces, you must add vectors.

Calculating this force (called Coulomb's Force):

$$F_{\text{electric}} = k_c \frac{q_1 q_2}{r^2} \quad \text{Equation chart} \quad \star$$

Variable chart:

F - Coulomb Force (in N); $k_c = 8.99 \times 10^9 \text{ Nm}^2/\text{C}^2$ (Coulomb's constant)

q_1 and q_2 are the two charges in coulombs (must be two);

r - distance between the two charges (must be in meters)

Q: Increases or decreases: one of the charge increases? ____ If the distance increases? ____

Q: If q_1 is positive and q_2 is negative is F_{electric} positive or negative? Is it attractive or repulsive?

Ex. 2 – A $4 \mu\text{C}$ charge and a $2 \mu\text{C}$ charge are 3 mm away from each other. Find the force between them.

$k_c = 8.99 \times 10^9$; $q_1 = 4 \mu\text{C}$; $q_2 = 2 \mu\text{C}$; $3 \text{ mm} = r$ (but r must be in m and q must be in C)

If $1000 \text{ mm} = 1 \text{ m}$; $1 \mu\text{C} = 1 \times 10^{-6} \text{ C}$ then: so $r = 3 \times 10^{-3} \text{ m}$; $q_1 = 4 \times 10^{-6} \text{ C}$; $q_2 = 2 \times 10^{-6} \text{ C}$

$$F_{\text{electric}} = 8.99 \times 10^9 \frac{(4 \times 10^{-6})(2 \times 10^{-6})}{(3 \times 10^{-3})^2} = 8.0 \times 10^3 \text{ N}$$



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