

Physics 1320: Study Guide Ch 21

Charges and Electric Forces

OBJECTIVES:

- a) To understand the nature of electric charges.
- b) To understand Coulomb's Law.

GLOSSARY:

Electric charge: May be positive or negative. Generally denoted by q for small charges and Q for large charges on macroscopic objects. Units of coulombs [C]. The fundamental charge element is $e = 1.602 \times 10^{-19}$ C. This is the magnitude of the charge of an electron ($-e$) and a proton ($+e$).

Point charge: A charge that exists at a point in space but has no size. It does have an electric charge and possibly a mass.

Continuous charge: An object (with some size) for which electric charge is spread out over the object.

Valence electrons: The electrons in the outer shell of an atom.

Conductor: An object whose valence electrons are free to move due to an electric force. Positive charges (protons) are in the nucleus of atoms and do not move.

Insulator: An object whose valence electrons are NOT free to move. All electrons in an insulator are bound to their atom.

Induction: Movement of charge due to bringing a charged object *near* another object.

Conduction: Movement of charge due to bringing a charged object *to touch* another object. When the charge redistributes between the two objects, the total charge stays the same.

COULOMB FORCE LAW:

The magnitude of the force between two charges:

$F = k_e \frac{|q_1||q_2|}{r^2}$ where r is the distance between q_1 and q_2 . The force is attractive if the charges are opposite, repelling if the charges are the same.

$$k = \frac{1}{4\pi\epsilon_0} = 8.99 \times 10^9 \frac{\text{Nm}^2}{\text{C}^2}$$

Physics 21 Study Guide

RJ Shavelson



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