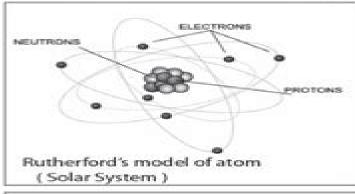
Lab 1 Electrostatics: Charging Objects by Friction

Overview

Static electricity is the result of an imbalance of charge in materials. Since all materials are made up of atoms, it is important to understand how the positive and negative charges in the atom produce this imbalance of charge in objects.

An atom encapsulates positive (protons), neutral (neutrons) and negative (electrons) charges within it. The positive and neutral charges make up the core or nucleus of the atom, while electrons carrying a negative charge surround the nucleus. A very crude model of the atom likens it to the solar system, which is described below as the Solar System Model in Fig. 1.0.1. A more accurate model, which we believe today, is the Electron Cloud Model, described below in Fig. 1.0.2.



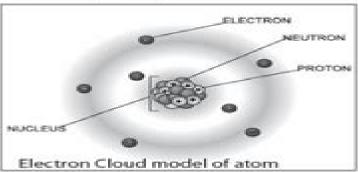


Fig. 1.0.1 Solar System Model (a.k.a Rutherford's Model of Atom) is the most common way to picture an atom. The model describes electrons orbiting around the nucleus in a fashion similar to planets orbiting the Sun. Just like planets have their orbits and are located at different distances from the Sun, the electrons have their own trajectory and distance from the nucleus. This model is still popular in teaching physics as it is easier to visualize.

Fig. 1.0.2 The Electron Cloud Model claims that there are no orbitals. Instead, the electrons are located around the nucleus within certain boundaries or shells.

These shells are described as the most probable locations for electrons to be found. The boundaries are fuzzy and the precise locations of the electrons are unknown. This model, which is based on probability, is considered more advanced, and it is commonly used in chemistry and quantum mechanics.

Charging By Friction Lab Answers

Michael B. Leyden

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