

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.

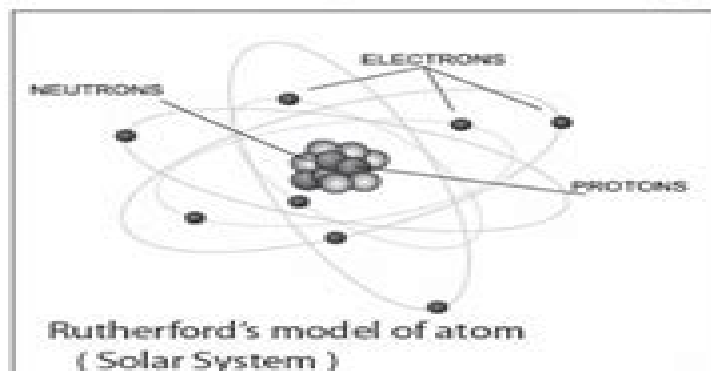


Fig. 1.0.1 Solar System Model (a.k.a Rutherford's Model of Atom) is the most common way to picture an atom. The model describes electrons orbiting around the nucleus in a fashion similar to planets orbiting the Sun. Just like planets have their orbits and are located at different distances from the Sun,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

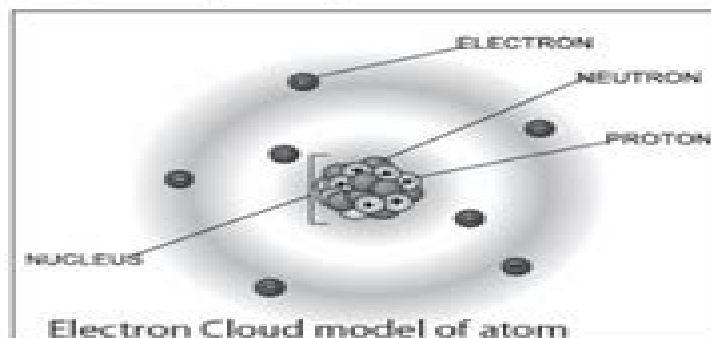


Fig. 1.0.2 The Electron Cloud Model claims that there are no orbitals. Instead, the electrons are located around the nucleus within certain boundaries or shells. These shells are described as the most probable locations for electrons to be found. The boundaries are fuzzy and the precise locations of 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 Horton



Charging By Friction Lab Answers:

Take-Home Physics: 65 High-Impact, Low-Cost Labs Michael Horton, 2009-05-30 Physics Physical Science Study Committee, 1965 *Electricity and Magnetism* , 2005 Addison-Wesley Introduction to Physical Science Michael B. Leyden, 1988 **English Mechanic and Mirror of Science** , 1879 *English Mechanic and Mirror of Science and Art* , 1892 **Prentice Hall Science Explorer** Michael J. Padilla, 2002 **Scientific and Technical Aerospace Reports** , 1983 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Physics Briefs* , 1993 **Textile Research Journal** , 1973 **Fire and Water Engineering** , 1924 **The Farmers' Advocate and Home Magazine** , 1916 *Outlook* Alfred Emanuel Smith, Francis Walton, 1891 **Scientific American** , 1881 Monthly magazine devoted to topics of general scientific interest **Popular Science** , 1987-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better The Employer , 1921 *English Mechanic and World of Science* , 1892 **School** , 1912 **Illinois Technograph** , 1951 **Physics** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006

Unveiling the Magic of Words: A Overview of "**Charging By Friction Lab Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Charging By Friction Lab Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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