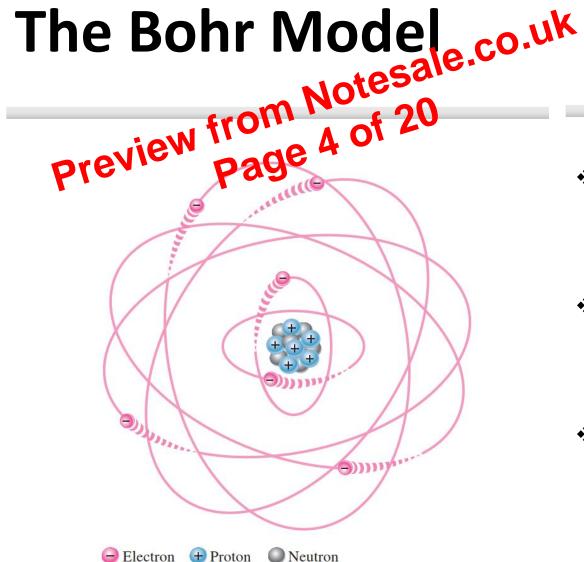
Atoms Structure .co.uk

Niels Bote Proposed that the electrons in an atom circle the nucleus in different obits, similar to the way planets orbit the sun in our solar system.

The **Bohr model** is often referred to as the planetary model.

Another view of the atom called the **quantum model** is considered a more accurate representation, but it is difficult to visualize.

For most practical purposes in electronics, the Bohr model suffices and is commonly used because it is easy to visualize.



- According to the classical Bohr model, atoms have a planetary type of structure that consists of a central nucleus surrounded by orbiting electrons.
- The nucleus consists of positively charged particles called protons and uncharged particles called neutrons. The basic particles of negative charge are called electrons.
- Each type of atom has a certain number of electrons and protons that distinguishes it from the atoms of all other elements.

• When ap a bin absorp 8 energy, the valence electrons can epsily jump to lagher energy shells. If a valence electron

- energy, called ionization energy, it can actually escape from the outer shell and the atom's influence.
- The departure of a valence electron leaves a previously neutral atom with an excess of positive charge (more protons than electrons).
- The process of losing a valence electron is known as ionization, and the resulting positively charged atom is called a positive ion.

