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Atoms, the fundamental building blocks of matter, are explored in detail in the 2nd PUC Physics syllabus. These comprehensive notes provide a concise and structured overview of the important concepts covered in the chapter.

Structure of the Atom

An atom consists of a positively charged nucleus surrounded by negatively charged electrons. The nucleus contains protons and neutrons, while the electrons occupy quantized energy levels. The notes explain the Rutherford scattering experiment, the Bohr model, and the quantum mechanical model of the atom.

Electronic Configuration

The arrangement of electrons in the energy levels of an atom is known as its electronic configuration. The notes discuss the Aufbau principle, the Pauli exclusion principle, and Hund's rule, which help determine the electronic configuration of elements. Examples and practice problems are provided to illustrate how to write electronic configurations and predict the properties of elements.

Chemical Bonding

Chemical bonding occurs when atoms interact with each other to form molecules or compounds. The notes cover different types of bonding, including ionic bonding, covalent bonding, and metallic bonding. Students will learn about the properties and characteristics of each type of bond and how they determine the physical and

chemical properties of substances.

Radioactivity

Some atoms are unstable and undergo radioactive decay, releasing energy in the form of particles or radiation. The notes discuss different types of radioactive decay, such as alpha decay, beta decay, and gamma decay. They also cover the concepts of half-life and the applications of radioactivity in medicine and technology.

Summary and Practice

The notes conclude with a summary of the key concepts covered in the chapter and a set of practice questions. These questions help students reinforce their understanding of the material and prepare for exams. By studying these comprehensive notes, students can gain a strong foundation in the concepts of atomic structure, electronic configuration, chemical bonding, and radioactivity.

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