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### Physics Of Atoms And Molecules

The study of atomic and molecular physics is a key component of undergraduate courses in physics, because of its fundamental importance to the understanding of many aspects of modern physics.

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The molecules of a particular substance are all identical and are small compared with the distances that separate them. 111 The Greek word 'atomos' (atom) means 'indivisible'. 1 Electrons, photons and atoms 1.1 3. The temperature of a gas is proportional to the average kinetic energy of the molecules.

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Physics of Atoms and Molecules This note covers the following topics: Planck's energy distribution law, Relation between Einstein coe cients, Waves and particles, Schrodinger equation, Particle in a box, Ground state of the hydrogen atom, Harmonic oscillator 1-D, Hydrogen atom and central forces, Interaction of atoms with electromagnetic radiation, Spin of the electron.

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### Atomic, molecular, and optical physics - Wikipedia

Molecules are made up of groups of atoms. Describing the structure of an atom, an atom is also sub-divided into smaller units. Protons, electrons, and neutrons are sub-particles of an atom. The protons and neutrons are contained inside the nucleus of the atom and electrons revolve around the nucleus.

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### Atoms, Molecules and Photons | SpringerLink

Physics of Atoms and Molecules is typically a third-year course for students of physics and some of its neighboring subjects. Bransden and Joachain, both theoretical physicists, delivered a no-nonsense introduction to the subject that also works fine as an overview and reference.

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