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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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Description : Quantum mechanics provides the fundamental theoretical apparatus for describing the

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structure and properties of atoms and molecules in terms of the behaviour of their fundamental components, electrons and nucleons. For heavy atoms and molecules containing them, the electrons can move at speeds which represent a substantial fraction of the speed of light, and thus relativity must be taken into account.

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atomic physics is often associated with nuclear power and nuclear bombs, due to the synonymous use of atomic and nuclear in standard English.

Atomic, molecular, and optical physics - Wikipedia

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