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Based on the discussions in Chap. 4 we will now apply the quantum mechanical treatment to the simplest atom, the H atom, which consists of one proton and one electron moving in the spherical ...

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CHAPTER 12 PHOTONS AND ATOMS 12.1 ATOMS, MOLECULES, AND SOLIDS A. Energy Levels B. Occupation of Energy Levels in Thermal Equilibrium ... Atoms, molecules, and solids have specific allowed energy levels determined by the rules of quantum mechanics. Light interacts with an atom through changes in the potential energy arising from forces on the ...

CHAPTER 12

Photons and electrons are two of the basic quantum-mechanical particles. Like all quantum-mechanical particles, electrons and ... of atoms; that is, it is delocalized. Trying to specify its position or its ... Boltzmann studied gases and the motion of molecules in gases. In a dense gas, Boltzmann said, the velocities of the molecules are ...

Chapter 2

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The first step in almost any ultracold gas experiment consists in cooling a gas of atoms to $\lambda_{dB} \approx \lambda_{degeneracy}$. This means that it is so cold that the de Broglie wave of one atom starts to overlap with that of its nearest neighbor (see Box 3.1). When the atoms in question are bosons, the result is a Bose-Einstein condensate (BEC).

