

### quantum mechanics bransden 2nd pdf

In quantum mechanics, a Hamiltonian is an operator corresponding to the total energy of the system in most of the cases. It is usually denoted by  $H$ , also  $\hat{E}$  or  $\hat{H}$ .

### Hamiltonian (quantum mechanics) - Wikipedia

In physics, mainly quantum mechanics and particle physics, a spin magnetic moment is the magnetic moment caused by the spin of elementary particles.

### Spin magnetic moment - Wikipedia

For a hydrogen atom, the spin magnetic moment is given by  $\mu_s = \frac{e\hbar}{2m_e} \approx 9.27 \times 10^{-24} \text{ J/T}$ . The spin magnetic moment is a vector quantity, and its direction is along the direction of the spin angular momentum.

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