

# LECTURE NOTE

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**Textbook:** D. W. Oxtoby, H. P. Gillis, and A. Campion,  
"Principles of Modern Chemistry", 7th ed., Cengage, (2012)

## Chapter 05 Quantum Mechanics and Atomic Structure

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### Hydrogen Atom

#### Energy

#### Levels

- Schrödinger equation for the hydrogen atom  
(or one-electron atoms) exactly solvable !

$$-\frac{\hbar^2}{2\mu} \nabla^2 \psi(r) - \frac{Ze^2}{4\pi\epsilon_0 r} \psi(r) = E\psi(r)$$

Reduced mass:  $\mu =$

$$\frac{m_1 m_2}{m_1 + m_2}$$

Energy  
values

$$E_n = -\frac{Z^2 e^4 m_e}{2n^2 \hbar^2}$$

$$Z^2$$

# Atomic Physics 7ed

**JS Bruner**



**Atomic Physics 7ed:**

## Reviewing **Atomic Physics 7ed**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Atomic Physics 7ed**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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