

Data and Calculations: The Atomic Spectrum of Hydrogen

A. Calculation of the Energy Levels of the Hydrogen Atom

Energies are to be calculated from Equation 6 for the 10 lowest energy states.

Table 11.2

Quantum Number, n	Energy, E_n , in kJ/mole	Quantum Number, n	Energy, E_n , in kJ/mole
1	-2.16×10^{-21}	6	-6.01×10^{-23}
2	-5.41×10^{-19}	7	4.42×10^{-23}
3	-2.4×10^{-22}	8	2.67×10^{-23}
4	-1.35×10^{-22}	9	2.67×10^{-23}
5	8.00 -8.66×10^{-23}	10	2.16×10^{-23}

B. Calculation of Wavelengths in the Spectrum of the H Atom

In the upper half of each box write ΔE , the difference in energy in kJ/mole between E_n and E_m . In the lower half of the box, write λ in nm associated with that value of ΔE .

Table 11.3

n_m	6	5	4	3	2	1
1	2.1×10^{-21} 94.2 nm	2.07×10^{-21} 95.6 nm	2.02×10^{-21} 98.01 nm	1.92×10^{-21} 105.1 nm	3.24×10^{-22} 611 nm	
2	4.8×10^{-22} 412.5 nm	4.52×10^{-22} 437.7 nm	4.05×10^{-22} 488.8 nm	3×10^{-22} 660 nm		
3	1.8×10^{-22} 1100 nm	1.5×10^{-22} 1320 nm	1.05×10^{-22} 1885.7 nm			
4	7.5×10^{-23} 2440 nm	4.8×10^{-23} 4125 nm				
5	2.6×10^{-23} 7615.3 nm					

$$\Delta E = E_m - E_n$$

$$\lambda (\text{nm}) = \frac{1.19627 \times 10^9}{\Delta E}$$

(continued on following page)

Atomic Spectrum Of Hydrogen Lab Answers

Scott C. Dulebohn



Atomic Spectrum Of Hydrogen Lab Answers:

Reviewing **Atomic Spectrum Of Hydrogen Lab Answers**: 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 Spectrum Of Hydrogen Lab Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in 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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