

Ch. 12 practice 106, 108, 110, 112

Reading =

Ch. 13.1 - 13.4 and 13.6 - 13.7 and 13.9 - 13.12

Hw #6 due Oct. 16

PE increases as Z_{eff} increases

becomes
more negative
→ IE is increasing

Exceptions to Trends =

$IE_{\text{Be}} > IE_{\text{B}}$ → P¹ electron is shielded by the 2s electrons

$IE_{\text{N}} > IE_{\text{O}}$ →

O = $\uparrow\downarrow$ \uparrow \uparrow
N = \uparrow \uparrow \uparrow \uparrow

spin pairing energy > Z_{eff} in this case

* spin repulsion occurs any time electrons are paired up

He is hardest to ionize: Z_{eff} is 23.72

$$E \propto \frac{Z_{\text{eff}}}{n^2}$$

valence electrons don't shield well as Z_{eff} increases

Group 1A



(i) 2nd series $n=3$
3s → Na



(ii) 4s → Rb



(iii) 5s → K



(iv) 6s → Li

increasing
atomic radius

Li
↓
Na
↓
K
↓
Rb

decreasing
ionization energy

Rb
↓
K
↓
Na
↓
Li

Chem 101 Upenn

Rachel Sandford



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Table of Contents Chem 101 Upenn

1. Understanding the eBook Chem 101 Upenn
 - The Rise of Digital Reading Chem 101 Upenn
 - Advantages of eBooks Over Traditional Books
2. Identifying Chem 101 Upenn
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chem 101 Upenn
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chem 101 Upenn

- Personalized Recommendations
- Chem 101 Upenn User Reviews and Ratings
- Chem 101 Upenn and Bestseller Lists
- 5. Accessing Chem 101 Upenn Free and Paid eBooks
 - Chem 101 Upenn Public Domain eBooks
 - Chem 101 Upenn eBook Subscription Services
 - Chem 101 Upenn Budget-Friendly Options
- 6. Navigating Chem 101 Upenn eBook Formats
 - ePub, PDF, MOBI, and More
 - Chem 101 Upenn Compatibility with Devices
 - Chem 101 Upenn Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chem 101 Upenn
 - Highlighting and Note-Taking Chem 101 Upenn
 - Interactive Elements Chem 101 Upenn
- 8. Staying Engaged with Chem 101 Upenn
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chem 101 Upenn
- 9. Balancing eBooks and Physical Books Chem 101 Upenn
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chem 101 Upenn
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chem 101 Upenn
 - Setting Reading Goals Chem 101 Upenn
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chem 101 Upenn

- Fact-Checking eBook Content of Chem 101 Upenn
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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