

SCH4U

Unit: Structure & Properties

Quiz: Atomic Structure (13 marks)

Name: SOLUTIONS

Date: _____

1. Briefly explain Dalton's model of the atom and the evidence that supported it. (2 marks)

- re-established that the existence of the atom
- looked at combustion data and observed constant ratios of masses of elements and inferred this must be because atoms combined in fixed ratios

2. Write a complete set of quantum numbers for the valence electrons for Titanium (Ti). (2 marks)

$n=4$	$n=4$	$n=3$	$n=3$
$l=0$	$l=0$	$l=2$	$l=2$
$m_l=0$	$m_l=0$	$m_l=-2$	$m_l=-1$
$m_s=\frac{1}{2}$	$m_s=-\frac{1}{2}$	$m_s=\frac{1}{2}$	$m_s=\frac{1}{2}$

choose any 2 of -2, -1, 0, 1, 2 for m_l

3. Write the condensed electron configuration for Rhodium (Rh), and justify its valence numbers of 2+, 3+, and 4+ (note that it is an exception). (3 marks)



2+: empty 5, half empty 4s

3+: half empty 4d

4+: half empty 4d, empty 5s

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Ensheng Dong

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Table of Contents Sch4u Nelson Solutions

1. Understanding the eBook Sch4u Nelson Solutions
 - The Rise of Digital Reading Sch4u Nelson Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Sch4u Nelson Solutions
 - 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 Sch4u Nelson Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sch4u Nelson Solutions
 - Personalized Recommendations
 - Sch4u Nelson Solutions User Reviews and Ratings
 - Sch4u Nelson Solutions and Bestseller Lists
5. Accessing Sch4u Nelson Solutions Free and Paid eBooks
 - Sch4u Nelson Solutions Public Domain eBooks
 - Sch4u Nelson Solutions eBook Subscription Services
 - Sch4u Nelson Solutions Budget-Friendly Options
6. Navigating Sch4u Nelson Solutions eBook Formats

- ePub, PDF, MOBI, and More
 - Sch4u Nelson Solutions Compatibility with Devices
 - Sch4u Nelson Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sch4u Nelson Solutions
 - Highlighting and Note-Taking Sch4u Nelson Solutions
 - Interactive Elements Sch4u Nelson Solutions
 8. Staying Engaged with Sch4u Nelson Solutions
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sch4u Nelson Solutions
 9. Balancing eBooks and Physical Books Sch4u Nelson Solutions
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sch4u Nelson Solutions
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Sch4u Nelson Solutions
 - Setting Reading Goals Sch4u Nelson Solutions
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Sch4u Nelson Solutions
 - Fact-Checking eBook Content of Sch4u Nelson Solutions
 - 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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