

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)



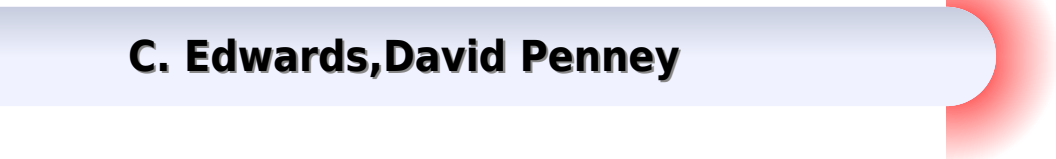
2+: empty 5, half empty 4s

3+: half empty 4d

4+: half empty 4d, empty 5s

Sch4u Nelson Solutions

C. Edwards, David Penney



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