

Practice Problems (Chapter 8): Electron Configuration

CHEM 1A

1. Write complete electron configurations for the following atoms:a) F $1s^2 2s^2 2p^5$

b) Al

c) V

d) Cu

e) Kr

2. Write noble gas electron configurations for the following atoms:a) Cd $[\text{Kr}] 5s^2 4d^{10}$

b) I

c) Ba

d) Rn

3. How many core, outer, and valence electrons do each of the following atoms have?

	Core	Outer	Valence
a) H	0	1	1
b) Si	10	4	4
c) Ti	18	2	4
d) Br	28	7	7
e) Ag	36	1	11

(3d e^- are core e^- for rep. elements)

(an exception)

4. Write orbital notations for the following atoms:

a) O $\frac{1\downarrow}{1s} \frac{1\downarrow}{2s} \frac{1\downarrow}{2p} \frac{1}{2p} \frac{1}{2p}$ $\frac{\quad}{3s}$ $\frac{\quad}{3p} \frac{\quad}{3p} \frac{\quad}{3p}$ $\frac{\quad}{4s}$ $\frac{\quad}{3d} \frac{\quad}{3d} \frac{\quad}{3d}$ b) P $\frac{1\downarrow}{1s} \frac{1\downarrow}{2s} \frac{1\downarrow}{2p} \frac{1\downarrow}{2p} \frac{1\downarrow}{2p}$ $\frac{1\downarrow}{3s}$ $\frac{1}{3p} \frac{1}{3p} \frac{1}{3p}$ $\frac{\quad}{4s}$ $\frac{\quad}{3d} \frac{\quad}{3d} \frac{\quad}{3d}$ c) Cr (an exception) $\frac{1\downarrow}{1s} \frac{1\downarrow}{2s} \frac{1\downarrow}{2p} \frac{1\downarrow}{2p} \frac{1\downarrow}{2p}$ $\frac{1\downarrow}{3s}$ $\frac{1\downarrow}{3p} \frac{1\downarrow}{3p} \frac{1\downarrow}{3p}$ $\frac{1}{4s}$ $\frac{1}{3d} \frac{1}{3d} \frac{1}{3d} \frac{1}{3d} \frac{1}{3d}$ d) Co $\frac{1\downarrow}{1s} \frac{1\downarrow}{2s} \frac{1\downarrow}{2p} \frac{1\downarrow}{2p} \frac{1\downarrow}{2p}$ $\frac{1\downarrow}{3s}$ $\frac{1\downarrow}{3p} \frac{1\downarrow}{3p} \frac{1\downarrow}{3p}$ $\frac{1\downarrow}{4s}$ $\frac{1\downarrow}{3d} \frac{1\downarrow}{3d} \frac{1}{3d} \frac{1}{3d} \frac{1}{3d}$

Electron Configuration Problems

David Baud



Electron Configuration Problems:

Electron Configuration Problems Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Electron Configuration Problems**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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