

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

Minjie Lin



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