

Electron Configuration Practice
Chemistry

Name: _____

Due Date: _____

How to write an electron configuration:

- Determine the total number of electrons to be represented.
- Use the Aufbau principle to fill the orbitals with electrons for elements 1-23. Refer to electron configuration periodic table for elements after 23
- The sum of the superscripts should equal the total number of electrons. Example:
 $12\text{Mg } 1s^2 2s^2 2p^6 3s^2$

I. Configuration Writing Practice

- Write a ground state electron configuration for each neutral atom. Ground state means that all of the lowest possible energy levels (up to the proper number of electrons for the element) are filled.

1. Na: $1s^2 2s^2 2p^6 3s^1$

2. Pb: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^2$

3. Sr: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2$

4. U: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^6 7s^2 5f^3 6d^1$

5. N: $1s^2 2s^2 2p^3$

* 6. Ag: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1 4d^{10}$

7. Ti: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^2$

8. Ce: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^1 5d^1$

9. Cl: $1s^2 2s^2 2p^6 3s^2 3p^5$

10. Hg: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10}$

Electron Configuration Packet Answers

N Noddings



Electron Configuration Packet Answers:

The book delves into Electron Configuration Packet Answers. Electron Configuration Packet Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Electron Configuration Packet Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Electron Configuration Packet Answers
- Chapter 2: Essential Elements of Electron Configuration Packet Answers
- Chapter 3: Electron Configuration Packet Answers in Everyday Life
- Chapter 4: Electron Configuration Packet Answers in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Electron Configuration Packet Answers. The first chapter will explore what Electron Configuration Packet Answers is, why Electron Configuration Packet Answers is vital, and how to effectively learn about Electron Configuration Packet Answers.
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6. In chapter 5, the author will draw a conclusion about Electron Configuration Packet Answers. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Electron Configuration Packet Answers.

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