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Terms in this set (17)

1) No two electrons can
have the same four
quantum numbers is

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known as the A) Pauli
exclusion principle B)
Hund's rule C) Aufbau
principle

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Chem 1110 - Chapter
8: Electron

Configurations and
Periodicity Practice

Quiz 3. 1. In predicting
the electron

configuration of the
elements by the

Aufbau Principle, to

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which sublevel is one
adding electrons in
traversing from
element 39, Y, to
element 48, Cd? a) 4f
b) 5p c) 4d d) 5d. 2.

Chem 1110 - Chapter 8: Electron Configurations and Periodicity

S P D F orbitals
Explained - 4 Quantum
Numbers, Electron
Configuration, &
Orbital Diagrams -

Duration: ... Tro

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Chapter 7 Lecture -

Quantum Mechanical

Model of the Atom -

Duration: 1:00:50.

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Abby S. • 132 cards.

Name that model: good

with H, not good with

multiple electrons .

Bohr model . Name

that model; very good

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with H. Equation can't
be solved exactly for
multiple electrons .

Schroedinger (QM)

Using hydrogen

solution as a model

requires what 3 things:

...

Chapter 8: Electron Configuration and Chemical Periodicity

...

CHAPTER 8 ELECTRON
CONFIGURATION AND
CHEMICAL PERIODICITY

8.1 Elements are listed

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in the periodic table in an ordered, systematic way that correlates with a periodicity of their chemical and physical properties.

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Chapter 8: Electron Configuration and Chemical Periodicity

...

Sample Problem 8.2
Determining Electron
Configurations

PROBLEM: Using the
periodic table on the
inside cover of the text
(not Figure 8.10 or
Table 8.3), give the full
and condensed

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electron configurations, partial orbital diagrams showing valence electrons only, and number of inner electrons for the following elements: (a) potassium (K; $Z = 19$)

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CHEMISTRY ...

8-30. Sample Problem

8.2. Determining

Electron

Configurations.

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PROBLEM: Using the periodic table on the inside cover of the text (not Figure 8.10 or Table 8.3), give the full and condensed electron configurations, partial orbital diagrams showing valence electrons only, and number of inner electrons for the following elements: (a) potassium (K ...

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CHAPTER 8. ELECTRON

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CONFIGURATION AND CHEMICAL PERIODICITY END-OF-CHAPTER PROBLEMS . 8.1

Elements are listed in the periodic table in an ordered, systematic way that correlates with a periodicity of their chemical and physical properties. The theoretical basis for the table in terms of atomic number and electron

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**ELECTRON
CONFIGURATION
AND CHEMICAL
PERIODICITY**

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8: Electron

Configurations and
Periodicity Practice

Quiz 1. Physical

constants: $h=6.626 \times 10^{-34}$ Joule-sec $c=3.00$

$\times 10^8$ m/s mass of

electron = 9.1×10^{-31}

kg. 1. Which is the

following is an

INCORRECT electron

configuration? a) Fe =

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[Ar]3d 6 4s 2 b) H = 1s

1 c) Se = [Ar]3d 10 4s

2 4p 4 d) O = [Ne]2s 2

2p 4. 2. Identify the ...

Chem 1110 - Chapter 8: Electron

Configurations and Periodicity

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8: Electron

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Periodicity Practice

Quiz 2. speed of light =
 3.00×10^8 m/s 1 joule
= $1 \text{ kg m}^2 / \text{s}^2$

Planck's constant =

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Configuration And

6.63 $\times 10^{-34}$ J s 1
Ångstrom = 1×10^{-10}

m. 1. All orbitals of a given degenerate set must be singly occupied before pairing begins in that set is a statement of _____. a) the Bohr Theory

Chem 1110 - Chapter 8: Electron Configurations and Periodicity

END-OF-CHAPTER
PROBLEMS 8.1

Elements are listed in

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the periodic table in an ordered, systematic way that correlates with a periodicity of their chemical and physical properties.

The theoretical basis for the table in terms of atomic number and electron configuration does not allow for an “unknown element” between Sn and Sb.

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PERIODICITY

Chapter 8 Electron

Configurations and

Periodicity I) Quantum

Numbers recap of

chapter 7 A) Principle

Quantum Number (n)

... The electron

configuration that we

can predict for each

element is the ground

state. In the ground

state, electrons exist in

the lowest energy

configuration.

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Chapter 8 Electron Configurations and Periodicity

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Chemical Periodicity.

Educators. ML RP LG +

3 more educators.

Chapter Questions.

02:44. Problem 1 What

would be your reaction

to a claim that a new

element had been

discovered and it fit

between tin (Sn) and

antimony (Sb) in the

periodic table. ML

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Marcus L. ...

Electron

Configuration and

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Periodicity Practice

Quiz 4. Physical

constants: $h=6.626 \times$

10^{-34} Joule-sec $c=3.00$

$\times 10^8$ m/s mass of

electron = 9.1×10^{-31}

kg. 1. Which is the

following is an

INCORRECT electron

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configuration for the

ground state of these

species? a) Sc = [Ar]4s

2 3d 1 b) Se = [Ar]4s 2

4p 4 c) Li = 1s 2 2s 1 d

...

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Configurations and Periodicity

Chapter 8 2013.

Chapter 8. Electron

Configuration and

Chemical Periodicity.

Wave Function

(Orbital) described by.

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described by. which are spdf electronic configuration Aufbau Rules. determined by which involve comprising. Core Electrons Valence Electrons Periodic Table.

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END-OF-CHAPTER PROBLEMS 8.1

Elements are listed in the periodic table in an ordered, systematic way that correlates

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with a periodicity of their chemical and physical properties. The theoretical basis for the table in terms of atomic number and

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