5

ELECTRONS IN ATOMS

Practice Problems

In your notebook, solve the following problems.

SECTION 5.1 MODELS OF THE ATOM

How many sublevels are in the following principal energy levels?

 $a_{ij} : a_{ij} \rightarrow 1$

 $c_{s} \cdot m = 3$

 $b_{x} = 2$

 $\mathbf{d}_{n} \approx -4$

e. n = 5f. n = 6

2. How many orbitals are in the following sublevels?

a. In sublevel

d. 4f sublevel

g. fifth principal energy level

b. 5s sublevel.

e. 7s sublevel

b. 6d sublevel.

e. def sublevel

Spr. stubskeved

3. What are the types of sublevels and number of orbitals in the following energy levels?

 $a_{r} \cdot m = 0$

 $e_{r} = 3$

 $-66 \cdot R = 51$

 $\mathbf{b}_{k}\cdot m=2$

 $\mathbf{d.} \quad m = 4.$

SECTION 5.2 ELECTRON ARRANGEMENT IN ATOMS

Write a complete electron configuration of each atom.

a. hydrogen

d. barium

g. kryptom

b. yama-dium

e. bromine

b. arsenic

e. magnesium

f. stalfter

1. cashon:

SECTION 5.3 PHYSICS AND THE QUANTUM MECHANICAL MODEL

- What is the wavelength of the radiation whose frequency is 5.00 × 10⁴⁵ s⁻¹? In what region of the electromagnetic spectrum is this radiation?
- An inexpensive laser that is available to the public emits light that has a wavelength of 670 nm. What are the color and frequency of the radiation?
- 3. What is the energy of a photon whose frequency is 2.22×10^{14} s⁻¹?
- What is the frequency of a photon whose energy is 6.00 × 10⁻¹⁰ ff.
- Arrange the following types of electromagnetic radiation in order of increasing frequency.

a. infrared

e. visible light

e. unicroverenes

b. cosmic rays

d. radio verves

£ ultraviolet

 Suppose that your favorite AM radio station broadcasts at a frequency of 1600 kHz. What is the wavelength in meters of the radiation from the station?

Chapter 5 Arrangement Of Electrons In Atoms Worksheet Answers

George Graybill

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edition, 1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today s technological society Glencoe Science McGraw-Hill Staff, 2001-06 and their electrons [Anonymus AC02578680],1995 Atoms, Molecules & Elements: What Are Atoms? Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice What Are Atoms from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension guiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives Atoms, Molecules & Elements: What Are Molecules? Gr. 5-8 George Graybill, 2015-10-01 This is the chapter slice What Are Molecules from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom's Taxonomy and STEM initiatives

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