

OpenQuest 13

Orbital Configuration

Name _____

Date _____

Class _____

Information: Energy of Sublevels

Not all orbitals have the same energy of energy. For example, orbitals in the $3p$ sublevel have more energy than orbitals in the $3s$ sublevel. The following orbitals have different energy levels in highest energy.



Circle the orbitals that have the same energy level. (Remember, orbitals in the same energy level are called orbitals.)



Now list the orbitals that have the same energy level. (Remember, orbitals in the same energy level are called orbitals.)

When orbitals have the same energy level, they are called orbitals of the same energy level. (This is called the **Pauli Exclusion Principle**.) An orbital can only hold two electrons with opposite spins. (This is called the **Pauli Exclusion Principle**.) When two electrons occupy the same orbital, they must spin in opposite directions—orbital spins must be opposite.

Critical Thinking Questions

- a. How many orbitals would a sublevel have if it had 10 orbitals? (Remember, orbitals in the same energy level are called orbitals of the same energy level.)
b. How many orbitals would a sublevel have if it had 10 orbitals? (Remember, orbitals in the same energy level are called orbitals of the same energy level.)
- a. How many orbitals would a sublevel have if it had 10 orbitals? (Remember, orbitals in the same energy level are called orbitals of the same energy level.)
b. How many orbitals would a sublevel have if it had 10 orbitals? (Remember, orbitals in the same energy level are called orbitals of the same energy level.)

Information: Hund's Rule

Electrons prefer to "spin" or "upspin". (Remember, orbitals in the same energy level are called orbitals of the same energy level.)



Remember, orbitals in the same energy level are called orbitals of the same energy level. (Remember, orbitals in the same energy level are called orbitals of the same energy level.)



Remember, orbitals in the same energy level are called orbitals of the same energy level. (Remember, orbitals in the same energy level are called orbitals of the same energy level.)

The following are the electron orbital diagrams for the elements, nitrogen and oxygen. (Remember, orbitals in the same energy level are called orbitals of the same energy level.)



Critical Thinking Questions

- a. How many "upspin" electrons are in a sublevel? (Remember, orbitals in the same energy level are called orbitals of the same energy level.)
- b. How many "upspin" electrons are in a sublevel? (Remember, orbitals in the same energy level are called orbitals of the same energy level.)
- c. How many "upspin" electrons are in a sublevel? (Remember, orbitals in the same energy level are called orbitals of the same energy level.)
- d. How many "upspin" electrons are in a sublevel? (Remember, orbitals in the same energy level are called orbitals of the same energy level.)

Answers For Chemquest

Liying Dong



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Making the Unseen Real Mark Vincent Falzon, 2009 **Information Sources in Chemistry** R. T. Bottle, J. F. B. Rowland, 2011-12-01 The aim of each volume of this series *Guides to Information Sources* is to reduce the time which needs to be spent on patient searching and to recommend the best starting point and sources most likely to yield the desired information The criteria for selection provide a way into a subject to those new to the field and assists in identifying major new or possibly unexplored sources to those who already have some acquaintance with it The series attempts to achieve evaluation through a careful selection of sources and through the comments provided on those sources **General Chemistry** Raymond Chang, 2003 Publisher Description Selective Electrode Reviews , 1988 **Service Life Prediction of Polymeric Materials** Jonathan W Martin, Rose Ann Ryntz, Joannie Chin, Ray Dickie, 2008-11-16 Service Life Prediction of Polymeric Materials Global Perspectives combines developed content derived from topics discussed in the Fourth International Symposium on Service Life Prediction Key Largo Florida December 2006 This critical examination of the existing and alternative methodologies used to assess the service life of polymeric materials presents readers with the advances in accelerated and field exposure testing protocols Written by established experts in the service life community this volume introduces advanced methods including high throughput and combinatorial analyses models data collection and storage formats Researchers and engineers involved with materials and polymer science coatings technologists and automotive materials will find Service Life Prediction of Polymeric Materials Global Perspectives a useful tool *The Science Teacher* , 1994 Some issues are accompanied by a CD ROM on a selected topic *Comprehensive Medicinal Chemistry* Corwin Hansch, Peter George Sammes, John Bodenhayn Taylor, 1990 Drug design is a multi disciplinary activity involving chemists biologists biochemists pharmacologists and many others the chemist's role is central in inventing new compounds which exert a beneficial effect However once a lead for a new active drug has been established its effective delivery has to be demonstrated and extensive toxicological studies undertaken to demonstrate its safety before clinical trials can commence The metabolic fate of the drug has to be revealed and detailed distribution studies carried out in order to satisfy the regulatory authorities before the new compound can be marketed *Comprehensive Medicinal Chemistry* describes all these aspects of the design of a drug whilst centering on the chemical mechanism whereby such agents act Volume 4 covers quantitative drug design *The Directory of Management Consultants*, 2003 Kennedy Information (Firm), 2002 Database , 1989 Chemical Week , 2000 **BRS Bulletin** Bibliographic Retrieval Services, Inc, 1989 ISLA , 1995-11 Clippings of Latin American political social and economic news from various English language newspapers *Training and Education for Online* Institute of Information Scientists, 1989 Abstracts of Papers - American Chemical Society American Chemical Society. Meeting, American Chemical Society, 1986 ORBIT Searchlight , 1988 LexisNexis Corporate Affiliations , 2004 **D & B Consultants Directory** , 2006 **Detroit Suburban North Woodward Area**

Telephone Directories ,1994 **Answers to Revision Questions for National 5 Chemistry** Douglas Buchanan,James
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