

Electron Configuration-Unit 4

Orbital Diagrams and Electron Configuration:

Use the patterns within the periodic table to draw orbital diagrams and write the electron configuration for the following terms:

Symbol	#e ⁻	Orbital diagrams and Electron Configuration
O	8	$1s^2 2s^2 2p^4$
Ge	32	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^2$ or [Ar] $4s^2 3d^{10} 4p^2$
N	7	$1s^2 2s^2 2p^3$
K	19	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^1$ [Ar] $4s^1$
Cr	24	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^1 3d^5$ [Ar] $4s^1 3d^5$
Se	34	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^4$ or [Ar] $4s^2 3d^{10} 4p^4$
Hg	80	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^4 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10}$ or [Xe] $6s^2 4f^{14} 5d^{10}$
Ti	22	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^1 3d^3$ or [Ar] $4s^1 3d^3$
Pb	82	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^4 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^2$ or [Xe] $6s^2 4f^{14} 5d^{10} 6p^2$
Ca	20	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2$ or [Ar] $4s^2$
F	9	$1s^2 2s^2 2p^5$
Pd	46	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1 4d^9$ [Kr] $5s^1 4d^9$
Br	35	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^5$ [Ar] $4s^2 3d^{10} 4p^5$
Ar	18	$1s^2 2s^2 2p^6 3s^2 3p^6$
Te	52	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6$ [Kr] $5s^2 4d^{10} 5p^6$
Zn	30	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10}$ [Ar] $4s^2 3d^{10}$
Bi	83	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^2 4f^{14} 5d^{10} 6p^3$ [Xe] $6s^2 4f^{14} 5d^{10} 6p^3$
Cs	55	$1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^2 4d^{10} 5p^6 6s^1$ [Xe] $6s^1$

Ws Orbital Notation Answers

AW Rasmussen



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Astronomy Activity and Laboratory Manual Alan W. Hirshfeld, 2008 Hirshfeld's *Astronomy Activity and Laboratory Manual* is a collection of twenty classroom based exercises that provide an active learning approach to mastering and comprehending key elements of astronomy. Used as a stand alone activity book or as a supplement to any mainstream astronomy text, this manual provides a broad historical approach to the field through a narrative conveying how astronomers gradually assembled their comprehensive picture of the cosmos over time. Each activity has been carefully designed to be implemented in classrooms of any size and require no specialized equipment beyond a pencil, straightedge and calculator. The necessary mathematical background is introduced on an as needed basis for every activity and is accessible for most undergraduate students. This learn by doing approach is sure to engage and excite your introductory astronomy students.

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions. It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course. It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material.

The Earth System Lee R. Kump, James F. Kasting, Robert G. Crane, 2004 The *Earth System* Second Edition employs a systems based approach to examine Earth science at the global level. This text explores how Earth's processes have connections to the past and to each other. Seemingly small scale changes to Earth can have large scale effects. Processes that are occurring now are molding the course of the future. The second edition incorporates two new chapters: Modeling the Atmosphere Ocean System. A discussion of why numerical models are necessary, how they are used, what they can tell us about past and future climates and what their limitations are. A Focus on the Biota. Ecosystems and Biodiversity. Focuses on life's role in the Earth system, how ecosystems function, what biodiversity is, and whether or not biological diversity enhances the stability of ecosystems. Three categories of boxed text are included and offer a deeper study of the topics presented. A Closer Look. Includes more advanced concepts, results from current research and explanations of interesting phenomena. Important Concepts. In depth presentations of fundamental concepts from the natural sciences essential to our understanding of the Earth system. Thinking Quantitatively. Demonstrates how simple mathematics can be used to better understand the workings of the Earth system.

Waves, Tides and Shallow-Water Processes Open University, 2013-10-22 The text begins by describing waves, their measurement and characteristics, their behaviour in shallow water and unusual waves. Next, mainly theoretical aspects are considered of sediment movement and deposition by currents, before discussing wave action in the littoral zone, tidal current action on tidal flat and in estuaries and the interaction of waves, tides and river flow in deltas. Finally, we examine shelf sea processes including an outline of their mineral resources.

S.A.E. Transactions Society of Automotive Engineers, 1983 Beginning in 1985 one section is devoted to a special topic

Learning Basic Calculus Alexander Hahn, 1998 This introductory calculus text was developed by the author through his teaching of an honors calculus course at Notre Dame The book develops calculus as well as the necessary trigonometry and analytic geometry from within the relevant historical context and yet it is not a textbook in the history of mathematics as such The notation is modern and the material is selected to cover the basics of the subject Special emphasis is placed on pedagogy throughout While emphasizing the broad applications of the subject emphasis is placed on the mathematical content of the subject

Waves, Tides, and Shallow-water Processes Open University. Oceanography Course Team, 1989 This is the fourth Volume of the six Volume Open University set Each Volume is used by students as a relevant part of the Open University course in the UK but designed so that it can equally be used as an individual text book This Volume describes waves their measurement and characteristics their behaviour in shallow water and unusual waves It also considers mainly theoretical aspects of sediment movement and deposition of currents wave estuaries and the interaction of waves tides and river flow in deltas Concludes with a look at shelf sea processes and their mineral resources Each Volume in this set is well laid out and copiously illustrated with full colour photographs graphs and graphics Questions to help develop arguments and or understanding can be found in the text and at the end of each chapter with worked answers provided at the back of each Volume Each chapter also concludes with a summary to help consolidate understanding before the next chapter is begun

Cumulative Index to Periodical Literature , 1973-03 *Soviet Physics, JETP.* , 1971

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