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POGIL: Electron Configuration and Orbitals

Model 1: Orbitals

The quantum mechanical model determines the allowed energies an electron can have and how likely it is to find the electron in various locations around the nucleus. Electrons are located in orbitals (different than Bohr!) in the electron cloud. An atomic orbital is a region of space in which there is a high probability of finding an electron. There are four orbitals, s, p, d, and f which are found in different energy levels called principle quantum numbers. Below is a table summarizing this idea. Be aware that we go all the way up to principle energy level of 7, however, it does become a bit more complex. We use the energy level numbers and orbitals in a "code" called electron configuration which helps us express the location of an electron with high probability.

Summary of Principal Energy Levels, Sublevels, and Orbitals		
Principal energy level	Number of sublevels	Type of sublevel
$n = 1$	1	1s (1 orbital)
$n = 2$	2	2s (1 orbital), 2p (3 orbitals)
$n = 3$	3	3s (1 orbital), 3p (3 orbitals), 3d (5 orbitals)
$n = 4$	4	4s (1 orbital), 4p (3 orbitals), 4d (5 orbitals), 4f (7 orbitals)

Key Content Questions:

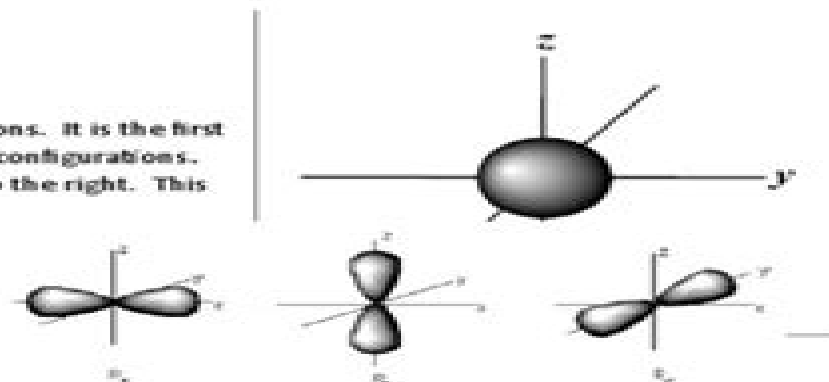
1. What is an atomic orbital? What are the four different orbitals?
2. What do you notice about the sublevels as you increase in energy levels?
3. Are all orbitals found in each sublevel?

s Orbital

The s orbital is a spherical shape and can only have 2 electrons. It is the first orbital in an energy level to be filled when writing electron configurations. The s orbital only has one orientation, seen in the picture to the right. This orbital is found in all energy levels.

(s=sphere...memory clue!)

p Orbital



Pogil Atomic Orbitals

**Juliette Lantz, Renée Cole, The POGIL
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Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

Advances in Teaching Physical Chemistry Mark David Ellison, 2008 This book brings together the latest perspectives and ideas on teaching modern physical chemistry It includes perspectives from experienced and well known physical chemists a thorough review of the education literature pertaining to physical chemistry a thorough review of advances in undergraduate laboratory experiments from the past decade in depth descriptions of using computers to aid student learning and innovative ideas for teaching the fundamentals of physical chemistry This book will provide valuable insight and information to all teachers of physical chemistry

Orbitals in Chemistry Victor M. S. Gil, 2000-08-10 This text presents a unified and up to date discussion of the role of atomic and molecular orbitals in chemistry from the quantum mechanical foundations to the recent developments and applications The discussion is mainly qualitative largely based on symmetry arguments It is felt that a sound mastering of the concepts and qualitative interpretations is needed especially when students are becoming more and more familiar with numerical calculations based on atomic and molecular orbitals The text is mathematically less demanding than most traditional quantum chemistry books but still retains clarity and rigour The physical insight is maximized and abundant illustrations are used The relationships between the more formal quantum mechanical formalisms and the traditional chemical descriptions of chemical bonding are critically established This book is of primary interest to undergraduate chemistry students and others taking courses of which chemistry is a significant part

Russian Journal of Coordination Chemistry, 1998 **Orbitals: With Applications In Atomic Spectra** Charles Stuart Mccaw, 2015-03-30 This book describes atomic orbitals at a level suitable for undergraduates in chemistry The mathematical treatment is brought to life by many illustrations rendered from mathematical functions no artists impressions including three dimensional plots of angular functions showing orbital phase and contour plots of the wavefunctions that result from orbital hybridisation Orbitals extends the key fundamental quantum properties to many electron atoms linear combinations of atomic orbitals simple molecules delocalised systems and atomic spectroscopy By focusing on simple model systems use of analogies and avoiding group theory the results are obtained from initial postulates without the need for sophisticated mathematics

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Frontier Orbitals and Reaction Paths Kenichi Fukui, 1997 A collection of selected papers on the Frontier Orbital Theory with introductory notes It provides the basic concept and formulation of the theory and the physical and chemical significance of the frontier orbital interactions in chemistry together with many practical applications The formulation of the Intrinsic Reaction Coordinate and applications to some simple systems are also presented The aim of this volume is to show by what forces chemical reactions are driven and to demonstrate how the regio and stereo selectivities are determined in chemical reactions Students and senior investigators will gain insight into the nature of chemical reactions and find out how quantum chemical calculations are connected with chemical intuition **The Chemist's Electronic Book of Orbitals** Timothy Clark, Rainer B. Koch, 2013-11-11 This CD ROM and textbook package introduces chemistry students to the world of molecular orbitals using 3D and VRML representations An overview of the basic chemistry and physics needed enables readers to move quickly onto the CD The CD ROM itself contains an extended interactive textbook and a broad selection of classical organic compounds and inorganic complex ligands complete with their orbitals Moreover interactive demonstrations allow students to alter relevant parameters and watch the change in the orbitals characteristics or take a walk through this fascinating 3D world Atomic and Molecular Orbitals George I. Sackheim, 1966 **Atomic Orbitals** Wong, Yue-Ling Wong, 1997-03 Localized Atomic Orbitals for Atoms in Molecules Keith Harlan Aufderheide, 1980 *Orbital Interactions in Chemistry* Thomas A. Albright, Jeremy K. Burdett, Myung-Hwan Whangbo, 2013-04-08 Explains the underlying structure that unites all disciplines in chemistry Now in its second edition this book explores organic organometallic inorganic solid state and materials chemistry demonstrating how common molecular orbital situations arise throughout the whole chemical spectrum The authors explore the relationships that enable readers to grasp the theory that underlies and connects traditional fields of study within chemistry thereby providing a conceptual framework with which to think about chemical structure and reactivity problems Orbital Interactions in Chemistry begins by developing models and reviewing molecular orbital theory Next the book explores orbitals in the organic main group as well as in solids Lastly the book examines orbital interaction patterns that occur in inorganic organometallic fields as well as cluster chemistry surface chemistry and magnetism in solids This Second Edition has been thoroughly revised and updated with new discoveries and computational tools since the publication of the first edition more than twenty five years ago Among the new content readers will find Two new chapters dedicated to surface science and magnetic properties Additional examples of quantum calculations focusing on inorganic and organometallic chemistry Expanded treatment of group theory New results from photoelectron spectroscopy Each section ends with a set of problems enabling readers to test their grasp of new concepts as they progress through the text Solutions

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Table of Contents Pogil Atomic Orbitals

1. Understanding the eBook Pogil Atomic Orbitals
 - The Rise of Digital Reading Pogil Atomic Orbitals
 - Advantages of eBooks Over Traditional Books
2. Identifying Pogil Atomic Orbitals
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pogil Atomic Orbitals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pogil Atomic Orbitals

- Personalized Recommendations
- Pogil Atomic Orbitals User Reviews and Ratings
- Pogil Atomic Orbitals and Bestseller Lists
- 5. Accessing Pogil Atomic Orbitals Free and Paid eBooks
 - Pogil Atomic Orbitals Public Domain eBooks
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 - Pogil Atomic Orbitals Budget-Friendly Options
- 6. Navigating Pogil Atomic Orbitals eBook Formats
 - ePub, PDF, MOBI, and More
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 - Pogil Atomic Orbitals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pogil Atomic Orbitals
 - Highlighting and Note-Taking Pogil Atomic Orbitals
 - Interactive Elements Pogil Atomic Orbitals
- 8. Staying Engaged with Pogil Atomic Orbitals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pogil Atomic Orbitals
- 9. Balancing eBooks and Physical Books Pogil Atomic Orbitals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pogil Atomic Orbitals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pogil Atomic Orbitals
 - Setting Reading Goals Pogil Atomic Orbitals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pogil Atomic Orbitals

- Fact-Checking eBook Content of Pogil Atomic Orbitals
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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