

Name KEY

# Orbital Diagrams

Orbital diagrams show the electronic configuration and electron pairings within an atom. Each box represents an orbital. Each orbital can only hold two electrons. Electrons are represented by arrows, which can point up (spin up) or point down (spin down). Remember the two rules for orbital diagrams: *Pauli Exclusion Principle* - no two electrons with the same spin can occupy the same orbital, and *Hund's Rule* - every orbital in the same sublevel must have one electron before electrons will pair.

First label the boxes with their principal energy level number and sublevel letter. Then start to fill in the electrons (put arrows in the boxes). When your orbital diagram is finished, write the final electron configuration on the line below the orbital diagram.



Draw an orbital diagram for the following atoms on your own.



# Electron Configuration Lab Answer Key

**F. Wuilleumier**



## **Electron Configuration Lab Answer Key:**

**Handbook of Formative Assessment** Heidi Andrade, Gregory J. Cizek, 2010-04-02 Formative assessment has recently become a focus of renewed research as state and federal policy makers realize that summative assessments have reached a point of diminishing returns as a tool for increasing student achievement. Consequently, supporters of large scale testing programs are now beginning to consider the potential of formative assessments to improve student achievement. The mission of this handbook is to comprehensively profile this burgeoning field of study. Written by leading international scholars and practitioners, each chapter includes a discussion of key issues that dominate formative assessment policy and practice today as well as those that are likely to affect research and practice in the coming years. Key features include: Comprehensive nineteen chapters cover all aspects of formative assessment including classroom assessment, large scale applications, technological applications, applications for special needs students, K-12 and post secondary applications, psychometric considerations, case studies, and discussion of alternative assessment formats such as portfolios and performance assessments. Integrative thoughtful attention is given to the integration of large scale and classroom assessments. Practical provides practical guidance on how to conduct formative assessments that generate credible information to guide instruction. Global provides perspectives from leading international scholars and practitioners whose expertise spans diverse settings, student populations, and educational systems. Accessible Style although grounded in the latest research, the book's style and tone has been carefully crafted to make it accessible to both the textbook and professional markets. It will also be a critical reference book for researchers in teacher preparation, educational administration, and educational policy studies. *NBS Special Publication*, 1972 **IGY Satellite Report** IGY World Data Center A: Rockets and Satellites, 1959 *The Software Encyclopedia* 2001, 2001 **The Chemistry of the Actinide Elements** Joseph Jacob Katz, Glenn Theodore Seaborg, 1957

*IGY Satellite Report Series*, 1958 **Photoionization and Other Probes of Many-Electron Interactions** F. Willeumier, 2013-11-21 The Advanced Study Institute on Photoionization and Other Probes of Many Electron Interactions was held at the Centre Les Cigales in Carry le Rouet, France, from August 31st till September 13th, 1975. The Institute was sponsored by the Scientific Affairs Division of NATO. The Centre National de la Recherche Scientifique, France, gave also partial support to the French participants and the National Science Foundation, U.S.A. to the American participants. A total of 18 lecturers and 54 students selected among more than 120 applicants attended the Institute. Over the last few years, substantial progress has been made in the experimental study of photon or electron interactions with atoms. In particular, the growing number of facilities created to use the synchrotron radiation makes now possible the realization of new types of experiments. The accumulation of new results showed clearly it was necessary to introduce electron correlations in the theoretical models in order to explain the existence and the probability of a large number of processes in particular multiple processes. Thus, large progress has also been made in the theoretical description of the excitation of the electronic systems.

and their interactions It was the purpose of this Institute to bring together theoreticians and experimentalists in order to provide an opportunity to present in details the state of the art in experiment as well as in theory and to favor discussions on future experimental and theoretical studies      Scientific and Technical Aerospace Reports ,1994-06      **Selected Topics on Stimulated Raman Effect** Richard H. Pantell,1969 Contents Tunable infrared generation by Raman scattering and Stimulated Raman scattering for an infrared active transition      **The Education Index** ,1982

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