

# 8 • Electron Configurations & Periodicity

## WRITING ELECTRON CONFIGURATIONS

For each given element, fill in the orbital diagram and then write the electron configuration for the element.

1.	2.	3.	4.	5.	6.
Element: Ar # of e <sup>-</sup> s: <u>18</u>	Element: Mg # of e <sup>-</sup> s: <u>12</u>	Element: N # of e <sup>-</sup> s: <u>7</u>	Element: Li # of e <sup>-</sup> s: <u>3</u>	Element: P # of e <sup>-</sup> s: <u>15</u>	Element: Cl # of e <sup>-</sup> s: <u>17</u>

Write the electron configurations of each of these in **long form** and **short form**:

- Ar  $1s^2 2s^2 2p^6 3s^2 3p^4$   
 Ar  $[Ne] 3s^2 3p^4$
- Mg  $1s^2 2s^2 2p^6 3s^2$   
 Mg  $[Ne] 3s^2$
- N  $1s^2 2s^2 2p^3$   
 N  $[He] 2s^2 2p^3$
- Li  $1s^2 2s^1$   
 Li  $[He] 2s^1$
- P  $1s^2 2s^2 2p^6 3s^2 3p^3$   
 P  $[Ne] 3s^2 3p^3$
- Cl  $1s^2 2s^2 2p^6 3s^2 3p^5$   
 Cl  $[Ne] 3s^2 3p^5$



- Fill in the orbital diagram for the element, Fe, and write the electron configuration of Fe in the long and short form.

Fe  $1s^2 2s^2 2p^6 3s^2 3p^4 3d^6 4s^2$

Fe  $[Ar] 3d^6 4s^2$

# Electron Configuration And Periodicity Lab Answer Key

**S Nieto**



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

**Energy Research Abstracts** ,1992-05     *Nuclear Science Abstracts* ,1975     Scientific and Technical Aerospace Reports ,1995-05     *Physics Briefs* ,1992     **Optochemical Nanosensors** Andrea Cusano, Francisco J. Arregui, Michele Giordano, Antonello Cutolo, 2016-04-19 This book provides an overview of the state of the art in optical and chemical nanosensors for industrial environmental diagnostic security and medical applications It summarizes the various types and developments in optical and chemical sensor technology and then explains how the integration of optical chemical sensors and nanomaterials creates new opportunities The text also reviews optochemical sensors starting from the basics in optoelectronics and concluding with the principles of operation at the basis of optochemical devices The authors offer insight into future trends in this growing field and present a range of applications in the fields of medicine security and bioterrorism

**NBS Special Publication** ,1972     **Muscular Dystrophy Abstracts** ,1968     **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1977     **ERDA Energy Research Abstracts** ,1977

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