

Chapter - 3

Classification Of Elements And Periodicity In

**Properties** 

The first systematic classification of elements was provided by Russian chemist D.I. Mendeleev.

1. Mendeleev's periodic law

"The physical and chemical properties of elements are periodic functions of their atomic weight."

2. It was modified to Modern Periodic law:

"The physical and chemical properties of elements are periodic functions of their atomic numbers."

It is the long form of periodic table:

7 Horizontal rows are called Periods and 18 Vertical columns are called Group

Group-1 are called **Alkali metals**Group-15 are called **Pnicogens**Group-17 are called **Halogens**Group-18 are called **Noble gases** 

- 3. 1st period—2 elements 2nd and 3rd period—8 elements 4th and 5th period—18 elements 6th period—32 elements 7th period—Incomplete (32 elements)
- 4. Groups

1 and 2 — 's' block elements last electron entered in 's' subshell [s<sup>1</sup>, s<sup>2</sup>] 3 to 12 — 'd' block elements last electrons entered in 'd' subshell [d<sup>1</sup> to d<sup>10</sup>]. 13 to 18 — 'p' block elements last electrons enter in 'p' subshell [p<sup>1</sup> to p<sup>6</sup>]. Two f-block series lanthanoids and actinoids are placed in the bottom of periodic table.

5. (A) In 's' and 'p' block elements the electrons enters in outer most shell. In 'd' block elements the electron enters in the penultimate shell (n-1).

# **Classification Of The Elements Study Guide**

David Welty Lefever, Philip Allan Libby, Rufus Bernhard von Kleinsmid, Frank Charles Touton

## **Classification Of The Elements Study Guide:**

A Student's Guide Through the Great Physics Texts Kerry Kuehn, 2015-12-17 This book provides a chronological introduction to modern atomic theory which represented an attempt to reconcile the ancient doctrine of atomism with careful experiments performed during the 19th century on the flow of heat through substances and across empty space Included herein are selections from classic texts such as Carnot's Reflection on the Motive Power of Fire Clausius Mechanical Theory of Heat Rutherford's Nuclear Constitution of Atoms Planck's Atomic Theory of Matter and Heisenberg's Copenhagen Interpretation of Quantum Theory Each chapter begins with a short introduction followed by a reading selection Carefully crafted study questions draw out key points in the text and focus the reader's attention on the author's methods analysis and conclusions Numerical and laboratory exercises at the end of each chapter test the reader's ability to understand and apply key concepts from the text Heat Radiation and Quanta is the last of four volumes in A Student's Guide through the Great Physics Texts The book comes from a four semester undergraduate physics curriculum designed to encourage a critical and circumspect approach to natural science while at the same time preparing students for advanced coursework in physics This book is particularly suitable as a college level textbook for students of the natural sciences history or philosophy It might also serve as a textbook for advanced high school or home schooled students or as a thematically organized source book for scholars and motivated lay readers In studying the classic scientific texts included herein the reader will be drawn toward a lifetime of contemplation Self-study Guide to Analysis and Design of Information Systems V. Rajaraman, 2004-10

Study Guide to Accompany Elements of Criminal Justice Laura B. Myers, 2000 Study Guide [to] Chemistry, a Systematic Approach [by] Sisler, Dresdner, and Mooney William H. Myers, William T. Mooney, 1980 Periodic Table (Advanced) (Speedy Study Guide) Speedy Publishing, 2014-11-26 If you are studying any type of science and need to know about the periodic table and all of its elements you may benefit from a periodic table advanced study guide in order to help you organize and apply the information in a matter that makes sense With so many different elements on the table to memorize you may be overwhelmed by the amount of information Having a study guide helps to break down the information for you so that it is easier to understand and remember ACCA Paper F2 - Management Accounting Study Text BPP Learning Media, 2009-07-01 This Study Text has been reviewed by the examiner and concentrates on the key areas of the syllabus taking into account the examiner's guidance on how topics will be examined. The Study Text has a step by step approach to topics and lots of exercises in which you can practise the calculations We provide a detailed chapter on spreadsheets and a basic maths appendix for those who need some revision in that area 1st International Conference on Lifelong Education and Leadership for ALL-ICLEL 2015 Assoc.Prof.Dr. Osman TİTREK,Ress. Asst. Gözed Sezen Gültekin, Dr. Subhan EKŞİOĞLU, Asst. Prof. Dr. Demet ZAFER GÜNEŞ, Asst. Prof. Dr. Regec VOJTECH, 2016-03-01 Copyright 2015 ICLEL Conferences All rights reserved by ICLEL Conferences Implementing Cisco IP Telephony and Video,

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