

4

Atomic Structure
Reviewsheet

A. Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this chapter. Each blank can be completed with a term, short phrase, or number.

Atoms of each element are 1 from the atoms of all other elements. Dalton theorized that atoms are indivisible, but the discovery of 2 particles changed this theory. We now know that atoms are made up of electrons, which have a 3 charge; 4, which have a positive charge; and 5, which are neutral. The latter two particles are found in the 6 of the atom.

It was 7 who discovered the nucleus of the atom. The nucleus has a 8 charge and it occupies a very small volume of the atom. In contrast, the negatively charged 9 occupy most of the volume of the atom.

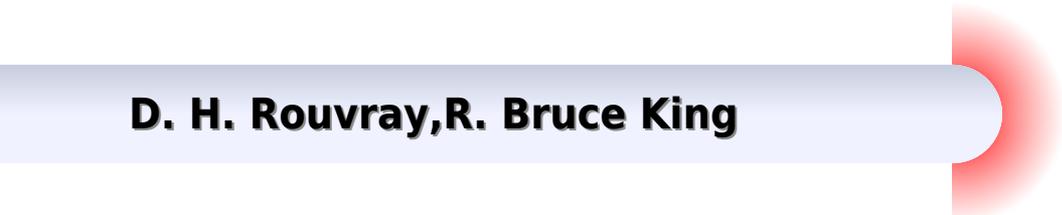
The number of 10 in the nucleus of the atom is the atomic 11 of that element. Because atoms are electrically neutral, the number of protons and 12 in an atom are equal. The sum of the 13 and neutrons is the mass number. Atoms of the same element are identical in most respects, but they can differ in the number of 14 in the nucleus. Atoms that have the same number of protons but different mass numbers are called 15.

The 16 of an element is the weighted average of the masses of the isotopes of that element. Two isotopes of sulfur are $^{32}_{16}\text{S}$ and $^{34}_{16}\text{S}$. An atom of the sulfur-32 isotope contains 17 protons and 18 neutrons. The sulfur-34 isotope has 19 protons and 20 neutrons.

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6. nucleus 43
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11. number 44
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13. protons (elec) 45
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15. isotopes 45
16. atomic mass 47
17. 16 45
18. 16 46
19. 16 46
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Chapter 4 Atomic Structure Answers Pdf

D. H. Rouvray, R. Bruce King



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The Mathematics of the Periodic Table D. H. Rouvray,R. Bruce King,2006 The Periodic Table effectively embraces the whole realm of chemistry within the confines of one comparatively simple and easily understood chart of the chemical elements Over many years the Periodic Table has proven to be indispensable not only to chemists of all kinds but also to a host of other scientists including biologists geologists and physicists It is thus hardly surprising that the Periodic Table has become one of our most celebrated contemporary scientific icons In the present work various aspects of the Periodic Table that are seldom if ever featured elsewhere are given prominence The twelve presentations contained herein all have a mathematical flavour because it is the intention to highlight the often neglected mathematical features of the Periodic Table and several closely related topics The book starts out by considering predictions of what the ultimate size of the Periodic Table will be when all of the possible artificial chemical elements have been synthesised It then moves on to an examination of the nature of the periodicity extant

in the Periodic Table and some methods for the prediction of the properties of the super heavy elements The Periodic Table is next explored in various dimensions other than two The natural clustering of the elements into groups is studied by three different but complementary routes namely via the topological structures of the groups the self association of the elements as evidenced by neural network studies and information theoretical analysis of the behaviour of atoms Following a detailed investigation of the mathematical basis for the periodicity seen in atomic and molecular spectroscopy three separate presentations delve into many different aspects of the group theoretical structure of the Periodic Table The unusual combination of themes offered here will appeal to all who seek a more detailed and intimate knowledge of the Periodic Table than that available in standard texts on the subject

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