Chapter 4 Atomic Structure

Section 4.2 The Structure of an Atom (pages 108–112)

This section compares the properties of three subatomic particles. It also discusses atomic numbers, mass numbers, and isotopes.

Reading Strategy (page 108)

Monitoring Your Understanding Before you read, list in the table shown what you know about atoms and what you would like to learn. After you read, list what you have learned. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.

What I Know	What I Would	What I Have
About Atoms	Like to Learn	Learned
Most students will know that atoms are the "building blocks" of matter, and some may know that atoms contain subatomic particles.	Based on the title of the section, students may say that they want to learn more about the structure of atoms.	

Properties of Subatomic Particles (pages 108-109)

1. What are three subatomic particles?

a. Protons b. Electrons c. Neutrons

Circle the letter that identifies a subatomic particle with a positive charge.

a. nucleus

(b) proton

c. neutron

d. electron

Why did Chadwick conclude that the particles produced by his experiment were neutral in charge? A charged object did not deflect the paths of the particles.

Comparing Subatomic Particles (pages 109-110)

Circle the letters of properties that vary among subatomic particles.

a. color

(b) mass

c. charge

d location in the atom

Circle the letter of the expression that accurately compares the masses of neutrons and protons.

a mass of 1 neutron = mass of 1 proton

b. mass of 2000 neutrons = mass of 1 proton

c. mass of 1 electron = mass of 1 proton

d. mass of 1 neutron = mass of 1 electron

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introductory remarks are presented which indicate what prompted the research projects and what the major accomplishments were Although the research was of the academic curiosity driven type some aspects have proven to be useful to others involved in projects that were much more applied in nature **Annual Reports on the Progress of Chemistry** Chemical Society (Great Britain),1922 Nuclear Science Abstracts, 1974 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available Commercial Fisheries Abstracts ,1972 **Compounds with Polar Metallic Bonding Constantin** Hoch, 2019-07-01 The Special Edition Compounds with Polar Metallic Bonding is a collection of eight original research reports presenting a broad variety of chemical systems analytical methods preparative pathways and theoretical descriptions of bonding situations with the common aim of understanding the complex interplay of conduction electrons in intermetallic compounds that possess different types of dipoles Coulombic dipoles introduced by electronegativity differences electric or magnetic dipoles polarity induced by symmetry reduction all the possible facets of the term polarity can be observed in polar intermetallic phases and have their own and in most cases unique consequences on the physical and chemical behaviour Elucidation of the structure property relationships in compounds with polar metallic bonding is a modern and growing scientific field which combines solid state physics preparative chemistry metallurgy modern analytic methods crystallography theoretical calculations of the electronic state and many more disciplines Grants and Awards for the Fiscal Year Ended ... National Science Foundation (U.S.),1980 Reviews of Pure and Applied Chemistry ,1962 ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976 OAR ,1967 **ERDA Energy** Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1976 Energy Research Abstracts ,1984 **Bibliography** Pierre Villars, Karin Cenzual, Marinella Penzo, 2012-12-21 By browsing about 10 000 000 scientific articles of over 200 major journals mainly in a cover to cover approach some 200 000 publications were selected The extracted data is part of the following fundamental material research fields crystal structures S phase diagrams also called constitution C and the comprehensive field of intrinsic physical properties P This work has been done systematically starting with the literature going back to 1900 The above mentioned research field codes S C P as well as the chemical systems investigated in each publication were included in the present work. The aim of the Inorganic Substances Bibliography is to provide researchers with a comprehensive compilation of all up to now published scientific publications on

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