

ATOMIC STRUCTURE

RUTHERFORD'S MODEL

- Discovered that an atom is mostly made up of empty space
- Center of the atom is a small dense positively charged nucleus
- This attraction holds the negatively charged particles in the atom

BOHR'S MODEL

- There are 2 main pieces of an atom:
- Nucleus
- Electrons

THE OLD MODEL OF THE ATOM



WAVE-MECHANICAL MODEL

- Electrons are moving so fast that they look like a cloud. Orbitals are regions of most likely electron location



WHAT IS TRUE TODAY...

- The nucleus is composed of 2 things:
 - PROTONS - positively charged particles
 - NEUTRONS - neutral charged particles
- Electrons are in a cloud - they are in orbitals
 - Electrons DO move around the nucleus in different patterns



Subatomic Particle	Location in the Atom	Charge	Weight
proton	center (in the nucleus)	positive	1 amu
neutron	center (in the nucleus)	neutral (no charge)	1 amu
electron	around the nucleus in clouds or orbitals	negative	Almost equal to 1/1840

IONS

- If an atom gains or loses an electron, it is called an ion
- This gives the atom a charge:
 - Lose an electron, the atom becomes positive
 - Gain an electron, the atom becomes negative

ISOTOPES

- An isotope is when an atom is proton or has a different number
- An isotope is still the same element, it is just a little different from every other atom of the same element
 - slightly different mass

Atomic Structure And Periodic Relationships Study Guide

Huangqi Zhang



Atomic Structure And Periodic Relationships Study Guide:

CLEP Official Study Guide The College Board, 2005-08-20 The CLEP Official Study Guide 17th Edition is the only complete source of information about the CLEP exams You get Descriptions of the exams to help students decide which exams to take Sample questions and answers for all 35 exams Valuable test taking tips and information on obtaining credit through CLEP With more than 6 million CLEP exams taken since 1967 the College Level Examination Program is a credit by examination program that has proven to be effective for students advisors and faculty Students can demonstrate their comprehensive subject knowledge gain credit and move on to more advanced topics Advisors can help students plan their undergraduate years by helping them shorten the time needed to complete their degree Faculty can use their undergraduate introductory courses more effectively There are exams in 35 introductory college level subjects and are administered on computers at 1 300 college testing centers Approximately 2 900 colleges and universities grant credit for CLEP exams

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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Atomic Structure And Periodic Relationships Study Guide**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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