Chapter 18- Radioactivity and Nuclear Reactions

I. Radioactivity

A. The <u>mucleus</u> of an atom is composed of protons and neutrons which comprise most of the atom's mass.

B. The strong force causes protons and neutrons to be attracted to each other in the nucleus.

1. The strong force is powerful only when neutrons and protons are closely packed together.

2. The protons and neutrons in a <u>large</u> nucleus are held less tightly by the strong force than protons and neutrons in a <u>small</u> nucleus.

C. Radioactivity—nuclear decay which happens when the strong force is not large enough to hold the nucleus together; the nucleus gives off matter and energy.

- 1. Isotopes are atoms of the same element with varying numbers of neutrons.
- 2. A nucleus with too many or too few neutrons compared to protons is radioactive.
- 3. Atomic number number of protons in an atom
- 4. Mass number number of protons and neutrons in a nucleus

D. Uranium radioactivity was discovered in 1896 by Henri Becquerel; Marie and Pierre <u>Curle</u> discovered the radioactive elements polonium and radium in 1898.

II. Nuclear Decay

- A. <u>Nuclear radiation</u>—particles and energy are released from a decaying nucleus.
- B. <u>Alpha</u> particle—two protons and two neutrons with an electric charge of +2
 - 1. Alpha particles leave charged four in their path when they travel through matter.
 - 2. Alpha particles are the *Least* penetrating form of nuclear radiation.
 - 3. Alpha particles can cause serious biological damage.

C. <u>Beta</u> particle—neutron decays into a proton and releases an electron at high speed; more penetrating than alpha particles

- D. Gamma ray penetrating electromagnetic waves that carry energy, but have no mass or charge
- E. Transmutation process of one element's changing to another through nuclear decay

F. The <u>half-life</u> of a radioactive isotope is the length of time it takes half the nucleus to decay; half-lives vary from fractions of a second to billions of years.

G. Carbon dating can be used to date once-living materials while <u>uranium</u> dating can be used to date rocks.

III. Detecting Radioactivity

A. Radiation detectors are instruments used to identify <u>lows</u> formed when radiation passes through matter.

- 1. A cloud chamber detects alpha or beta particles by means of a trail of condensed vapor,
- A <u>bubble</u> chamber detects radioactive particles by means of a bubble trail in a superheated liquid.
- 3. Electroscopes can measure charged particles in the air.

B. A Geiger counter measures radioactivity by producing an electric current when radiation is present.

C. Background radiation comes from <u>radon</u> gas produced in the Earth's crust, from cosmic rays, and from radioactive isotopes in the body.

Key To Radioactivity And Nuclear Reactions Answers

Dr. RK Gupta

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- 1. Understanding the eBook Key To Radioactivity And Nuclear Reactions Answers
 - The Rise of Digital Reading Key To Radioactivity And Nuclear Reactions Answers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Key To Radioactivity And Nuclear Reactions Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Key To Radioactivity And Nuclear Reactions Answers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Key To Radioactivity And Nuclear Reactions Answers
 - Personalized Recommendations
 - Key To Radioactivity And Nuclear Reactions Answers User Reviews and Ratings
 - Key To Radioactivity And Nuclear Reactions Answers and Bestseller Lists
- 5. Accessing Key To Radioactivity And Nuclear Reactions Answers Free and Paid eBooks
 - Key To Radioactivity And Nuclear Reactions Answers Public Domain eBooks
 - Key To Radioactivity And Nuclear Reactions Answers eBook Subscription Services
 - Key To Radioactivity And Nuclear Reactions Answers Budget-Friendly Options

- 6. Navigating Key To Radioactivity And Nuclear Reactions Answers eBook Formats
 - o ePub, PDF, MOBI, and More
 - Key To Radioactivity And Nuclear Reactions Answers Compatibility with Devices
 - Key To Radioactivity And Nuclear Reactions Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Key To Radioactivity And Nuclear Reactions Answers
 - Highlighting and Note-Taking Key To Radioactivity And Nuclear Reactions Answers
 - Interactive Elements Key To Radioactivity And Nuclear Reactions Answers
- 8. Staying Engaged with Key To Radioactivity And Nuclear Reactions Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Key To Radioactivity And Nuclear Reactions Answers
- 9. Balancing eBooks and Physical Books Key To Radioactivity And Nuclear Reactions Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Key To Radioactivity And Nuclear Reactions Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Key To Radioactivity And Nuclear Reactions Answers
 - Setting Reading Goals Key To Radioactivity And Nuclear Reactions Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Key To Radioactivity And Nuclear Reactions Answers
 - Fact-Checking eBook Content of Key To Radioactivity And Nuclear Reactions Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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