Chapter 21: Nuclear Chemistry

21.1: The Nature of Nuclear Reactions

<u>Nucleons</u>: - the particles that make up a nucleus of an atom (protons, (!p" or !H) and neutrons, (!n)).

Isotopes: - atoms that have different mass number but the same atomic number or number of protons.

Nuclide: a particular atom or isotope containing specific numbers of protons and neutrons

Mass Number (# of p^* and #) $\longrightarrow A$ Element Symbol (based on Atomic #)

Radioactivity: - the particles and/or electromagnetic radiation that are emitted due to unstable nuclei.
 - all elements having atomic number 84 (Polonium) and greater are radioactive.

Nuclear Transmutation: - a process where radioactivity is resulted from the bombardment of nuclei by neutrons, protons or other nuclei.

- in most cases, heavier elements are synthesized from lighter elements.

History of Radioactivity

- In 1896, Wilhelm Roentgen discovered X-ray by examining ray emitting from the outside of the
 cathode ray glass tube. It has the capability of passing through solid materials, but can be blocked by
 denser matters. It can also be exposed to photographic plate, resulting from an image of "seeing
 through" an container made of less dense material.
- In the same year, Antoine Becquerel discovered that uranium emits a ray onto a photographic plate in the absence of sunlight or other forms of energy.
- A few years later, <u>Marie and Pierre Curie</u> demonstrated that radiation can be emitted by other elements. They discovered two new elements (polonium and radium) based on their tendency to emit radiation (<u>radioactivity</u>).

Types of Radioactive Particle and Decay

Alpha Particle (α particle): - basically a helium nucleus (He), commonly found during radioactive decay from heavier nuclide (the net result is to increase the neutron to proton ratio – more explanation in the next section).

Example: 218 Po -> 214 Pb + 4 He

Beta Particle (β particle): - basically an electron ("e or "β) that is emitted when the neutron to proton ratio is higher than the zone of stability (a neutron is transformed to a proton and an electron as a result — more explanation in the next section).
 - electrons have a mass number of 0 and an atomic number assignment of -1, due to its charge.

Example: $^{214}_{62} Pb \rightarrow ^{214}_{63} Bi + ^{8}_{-1} e$ $(^{1}_{6} n \rightarrow ^{1}_{1} p + ^{8}_{-1} e)$

Review Nuclear Chemistry Section 3 Key

Robert Burke

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Handbook of nuclear chemistry Attila Vértes, Sándor Nagy, Zoltan Klencsár, Rezső G. Lovas, 2003 McGraw-Hill's **SAT Subject Test Chemistry, 3rd Edition** Thomas Evangelist, 2011-02-03 Expert guidance on the Chemistry exam Many colleges and universities require you to take one or more SAT II Subject Tests to demonstrate your mastery of specific high school subjects McGraw Hill's SAT Subject Test Chemistry is written by experts in the field and gives you the guidance you need perform at your best This book includes 4 full length sample tests updated for the latest test format 40 top tips to remember on test day Glossary of tested chemistry terms and formulas Tips and strategies from one of the most popular teachers at the renowned Brooklyn Technical High School Diagnostic test to pinpoint strengths and weaknesses Step by step review of all topics covered on the exam In depth coverage of the lab experiment questions that are a major test feature Charts tables and illustrations to simplify and reinforce learning Practice tests just like the real SAT Subject Test in Chemistry Test taking tips and strategies **AP Chemistry For Dummies** Peter J. Mikulecky, Michelle Rose Gilman, Kate Brutlag, 2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out or your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates a chapter to providing a brief review of common laboratory equipment and techniques and another to a complete survey of recommended AP chemistry experiments Two full length practice exams help you build your confidence get comfortable with test formats identify your strengths and weaknesses and focus your studies You ll discover how to Create and follow a pretest plan Understand everything you must know about the exam Develop a multiple choice strategy Figure out displacement combustion and acid base reactions Get familiar with stoichiometry Describe patterns and predict properties Get a handle on organic chemistry nomenclature Know your way around laboratory concepts tasks equipment and safety Analyze laboratory data Use practice exams to maximize your score Additionally you ll have a chance to brush up on the math skills that will help you on the exam learn the critical types of chemistry problems and become familiar with the annoying exceptions to chemistry rules Get your own copy of AP Chemistry For Dummies to build your confidence and test taking know how so you can ace that exam Journal of Research of the National Bureau of Standards United States. National Bureau of Standards,1976 EBOOK: GENERAL CHEMISTRY,

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Table of Contents Review Nuclear Chemistry Section 3 Key

- 1. Understanding the eBook Review Nuclear Chemistry Section 3 Key
 - The Rise of Digital Reading Review Nuclear Chemistry Section 3 Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Review Nuclear Chemistry Section 3 Key
 - 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 Review Nuclear Chemistry Section 3 Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Review Nuclear Chemistry Section 3 Key
 - Personalized Recommendations
 - $\circ\,$ Review Nuclear Chemistry Section 3 Key User Reviews and Ratings
 - Review Nuclear Chemistry Section 3 Key and Bestseller Lists
- 5. Accessing Review Nuclear Chemistry Section 3 Key Free and Paid eBooks
 - Review Nuclear Chemistry Section 3 Key Public Domain eBooks
 - Review Nuclear Chemistry Section 3 Key eBook Subscription Services
 - Review Nuclear Chemistry Section 3 Key Budget-Friendly Options
- 6. Navigating Review Nuclear Chemistry Section 3 Key eBook Formats

- o ePub, PDF, MOBI, and More
- Review Nuclear Chemistry Section 3 Key Compatibility with Devices
- Review Nuclear Chemistry Section 3 Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Review Nuclear Chemistry Section 3 Key
 - Highlighting and Note-Taking Review Nuclear Chemistry Section 3 Key
 - Interactive Elements Review Nuclear Chemistry Section 3 Key
- 8. Staying Engaged with Review Nuclear Chemistry Section 3 Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Review Nuclear Chemistry Section 3 Key
- 9. Balancing eBooks and Physical Books Review Nuclear Chemistry Section 3 Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Review Nuclear Chemistry Section 3 Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Review Nuclear Chemistry Section 3 Key
 - Setting Reading Goals Review Nuclear Chemistry Section 3 Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Review Nuclear Chemistry Section 3 Key
 - Fact-Checking eBook Content of Review Nuclear Chemistry Section 3 Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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