CHEM 1412 Chapter 21 Notes: Nuclear

21.1 Nuclear Structure and Stability

protons and neutrons.

The Nucleus

- Nuclear chemistry is the study of reactions that involve changes in nuclear structure.
- When referring to a single type of nucleus, we often use the term nuclide and identify it by the notation, ^AX
 Remember that the nucleus is composed of the two nucleons,
 - The number of protons (Z) is the atomic number.
 - The number of neutrons is N.
 - The number of protons and neutrons (A) (A=Z+N) together is effectively the mass number of the atom.



- Not all atoms of the same element have the same mass, due to different numbers of neutrons in those atoms.
- There are, for example, three naturally occurring isotopes of uranium:
 - Uranium-234
 - Uranium-235
 - Uranium-238
- It is not uncommon for some nuclides of an element to be unstable

Neutron-Proton Ratios

- Any element with more than one proton (i.e., anything but hydrogen) will have repulsions between the protons in the nucleus.
- Positively charged protons that repel one another at such short distances requires very strong attractive forces
- A strong nuclear force helps keep the nucleus from flying apart.
- Neutrons play a key role stabilizing the nucleus.
- Therefore, the ratio of neutrons to protons is an important factor.
- For smaller nuclei (Z ≤ 20), stable nuclei have a neutron-to-proton ratio close to 1:1.
- · As nuclei get larger, it takes a larger number of neutrons to stabilize the nucleus.

For ⁴He

 $(2 \times 1.0073 \text{ amu}) + (2 \times 1.0087 \text{ amu}) + (2 \times 0.00055 \text{ amu}) = 4.0331 \text{ amu}$ protons electrons

protons plus neutrons)

Atomic number (number of protons or electrons)

Symbol of element.

- · But the mass spectrometric shows 4,0026 amu
- Mass defect is the difference between the calculated and experimentally measured masses.
 - o the mass defect indicates a "loss" for helium in mass of 4.0331 amu 4.0026 amu = 0.0305 amu.
- The loss in mass accompanying the formation of an atom from protons, neutrons, and electrons is due
 to the conversion of that mass into energy that is evolved as the atom forms.
- The nuclear binding energy is the energy produced when the atoms' nucleons are bound together
 - this is also the energy needed to break a nucleus into its constituent protons and neutrons.
- The conversion between mass and energy equation by Einstein: E=Δmc²
 - where E is energy in Joules, Δ m is the mass defect in kg (6.022×10²³ amu=1 g and 1000 g=1 kg), and c is the speed of light in a vacuum, 2.998 x 10⁸ m/s.

Learning Check

The nuclear mass of ⁴He is 4,0026 amu. Calculate the binding energy per nucleon (J/nucleon).

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Zhe Xu

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Table of Contents Chapter 21 Nuclear Chem Web Quest

- 1. Understanding the eBook Chapter 21 Nuclear Chem Web Quest
 - The Rise of Digital Reading Chapter 21 Nuclear Chem Web Quest
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Chapter 21 Nuclear Chem Web Quest
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - o Features to Look for in an Chapter 21 Nuclear Chem Web Quest
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Chapter 21 Nuclear Chem Web Quest
 - Personalized Recommendations
 - Chapter 21 Nuclear Chem Web Quest User Reviews and Ratings
 - Chapter 21 Nuclear Chem Web Quest and Bestseller Lists

- 5. Accessing Chapter 21 Nuclear Chem Web Quest Free and Paid eBooks
 - Chapter 21 Nuclear Chem Web Quest Public Domain eBooks
 - Chapter 21 Nuclear Chem Web Quest eBook Subscription Services
 - Chapter 21 Nuclear Chem Web Quest Budget-Friendly Options
- 6. Navigating Chapter 21 Nuclear Chem Web Quest eBook Formats
 - o ePub, PDF, MOBI, and More
 - Chapter 21 Nuclear Chem Web Quest Compatibility with Devices
 - Chapter 21 Nuclear Chem Web Quest Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 21 Nuclear Chem Web Quest
 - Highlighting and Note-Taking Chapter 21 Nuclear Chem Web Quest
 - Interactive Elements Chapter 21 Nuclear Chem Web Quest
- 8. Staying Engaged with Chapter 21 Nuclear Chem Web Quest
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 21 Nuclear Chem Web Quest
- 9. Balancing eBooks and Physical Books Chapter 21 Nuclear Chem Web Quest
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 21 Nuclear Chem Web Quest
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 21 Nuclear Chem Web Quest
 - Setting Reading Goals Chapter 21 Nuclear Chem Web Quest
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 21 Nuclear Chem Web Quest
 - Fact-Checking eBook Content of Chapter 21 Nuclear Chem Web Quest
 - 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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