

The Q value of a nuclear reaction $A + b \rightarrow C + d$ is defined by

$$Q = [m_A + m_b - m_C - m_d]c^2$$

where the masses refer to the respective nuclei. Determine from the given data the Q -value of the following reactions and state whether the reactions are exothermic or endothermic.



Atomic masses are given to be

$$m({}_1^2\text{H}) = 2.014102 \text{ u}$$

$$m({}_1^3\text{H}) = 3.016049 \text{ u}$$

$$m({}_6^{12}\text{C}) = 12.000000 \text{ u}$$

$$m({}_{10}^{20}\text{Ne}) = 19.992439 \text{ u}$$

Suppose, we think of fission of a ${}_{26}^{56}\text{Fe}$ nucleus into two equal fragments, ${}_{13}^{28}\text{Al}$. Is the fission energetically possible? Argue by working out Q of the process. Given $m({}_{26}^{56}\text{Fe}) = 55.93494 \text{ u}$ and $m({}_{13}^{28}\text{Al}) = 27.98191 \text{ u}$.

The fission properties of ${}_{94}^{239}\text{Pu}$ are very similar to those of ${}_{92}^{235}\text{U}$. The average energy released per fission is 180 MeV. How much energy

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1. Understanding the eBook M C Q Of Nuclear Chemistry
 - The Rise of Digital Reading M C Q Of Nuclear Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying M C Q Of Nuclear Chemistry
 - 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 M C Q Of Nuclear Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from M C Q Of Nuclear Chemistry
 - Personalized Recommendations
 - M C Q Of Nuclear Chemistry User Reviews and Ratings
 - M C Q Of Nuclear Chemistry and Bestseller Lists

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