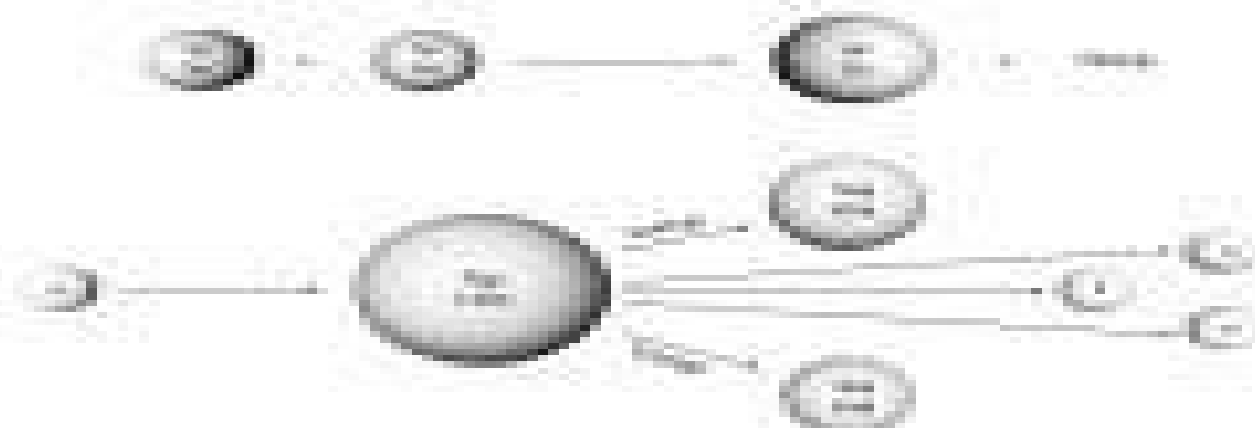




End Assessment

Nuclear Decays and Reactions

Below is a diagram that illustrates a sequence of nuclear decays and reactions.



- The diagram shows two types of radioactive nuclear decays and nuclear fusion. Label the type of nuclear decay that includes alpha decays and the type that includes beta decays. _____
- Circle the fusion alpha decays that occur by violating the nuclear conservation principle.
 - ${}^{238}_{92}\text{U} \rightarrow {}^{234}_{90}\text{Th} + {}^4_2\text{He}$
 - ${}^{238}_{92}\text{U} \rightarrow {}^{234}_{91}\text{Pa} + {}^4_2\text{He}$
 - ${}^{234}_{90}\text{Th} \rightarrow {}^{234m}_{91}\text{Pa} + e^-$
 - ${}^{234}_{90}\text{Th} \rightarrow {}^{234m}_{91}\text{Pa} + \nu_e$
- Circle the fusion alpha decays that occur by violating the nuclear conservation principle.
 - ${}^{235}_{92}\text{U} + {}^1_0\text{n} \rightarrow {}^{234}_{90}\text{Th} + {}^4_2\text{He} + 2e^- + 2\bar{\nu}_e + 2\gamma$
 - ${}^{235}_{92}\text{U} + {}^1_0\text{n} \rightarrow {}^{234}_{91}\text{Pa} + {}^4_2\text{He} + 2e^- + 2\bar{\nu}_e + 2\gamma$
 - ${}^{234m}_{91}\text{Pa} + {}^1_0\text{n} \rightarrow {}^{234}_{90}\text{Th} + {}^4_2\text{He} + 2e^- + 2\bar{\nu}_e + 2\gamma$
 - ${}^{234m}_{91}\text{Pa} + {}^1_0\text{n} \rightarrow {}^{234}_{91}\text{Pa} + {}^4_2\text{He} + 2e^- + 2\bar{\nu}_e + 2\gamma$
- Which conservation law is violated in the fusion alpha decays? If any, by how much? _____
- Label each event either spontaneous or by a source emitted and justify answers. _____

What follows?

- Which other elements are involved in the fusion reactions/decays? If any, list them and justify. _____
- Label each event either spontaneous or by a source emitted and justify answers. _____

Quality

Section 4 Reinforcement Nuclear Reactions Answers

Mike Jess



Section 4 Reinforcement Nuclear Reactions Answers:

Section 4 Reinforcement Nuclear Reactions Answers Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Section 4 Reinforcement Nuclear Reactions Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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