

Chapter 25 Nuclear Chemistry Practice Test

Multiple Choice

Identify the choice that best completes the statement or answers the question.

- ____ 1. What does the 4 in ${}^4_2\text{He}$ represent?
- the mass number
 - the atomic number
 - the number of protons
 - the number of neutrons
- ____ 2. What does the 101 in ${}^{256}_{101}\text{Md}$ represent?
- the mass number
 - the atomic number
 - the nuclide number
 - the number of neutrons
- ____ 3. Balance the following equation: ${}^{226}_{88}\text{Rn} \rightarrow {}^{226}_{86}\text{Rn} + \text{_____}$
- ${}^4_2\text{He}$
 - 1_0e
 - ${}^1_1\text{H}$
 - ${}^0_{-1}e$
- ____ 4. Balance the following equation: ${}^{239}_{93}\text{Np} \rightarrow \text{_____} + {}^0_{-1}e$
- ${}^{239}_{90}\text{Th}$
 - ${}^{239}_{92}\text{U}$
 - ${}^{239}_{94}\text{Pu}$
 - ${}^{239}_{94}\text{Pa}$
- ____ 5. The spontaneous disintegration of a nucleus into a slightly lighter and more stable nucleus, accompanied by emission of particles, electromagnetic radiation, or both, is
- nuclear fusion.
 - nuclear radiation.
 - radioactive decay.
 - nuclear fission.
- ____ 6. Which of the following forms of radiation has the greatest penetrating power?
- alpha particles
 - beta particles
 - gamma rays
 - positrons
- ____ 7. Alpha particles are
- electrons.
 - helium nuclei.
 - electromagnetic waves.
 - neutrons.
- ____ 8. Beta particles are
- electrons.
 - helium nuclei.
 - electromagnetic waves.
 - neutrons.
- ____ 9. Which of the illustrations below represents a fission reaction?

Exam Chapter 2 nuclear Chemistry

Ensheng Dong



Exam Chapter 2 nuclear Chemistry:

Exam Chapter 2nuclear Chemistry Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Exam Chapter 2nuclear Chemistry**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://staging.conocer.cide.edu/results/Resources/Documents/Little%20Ship%20Big%20War%20The%20Saga%20Of%20De343.pdf>

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