

Nuclear Decay

Types of Radiation

1. Complete the table below to compare the properties of alpha, beta, and gamma radiation.

| Name | Alpha | Beta | Gamma |
|--------------|-----------------------|---------------------|-------------------|
| Greek letter | α | β | γ |
| Symbol | ${}^4_2\text{He}$ | ${}^0_{-1}\text{e}$ | γ |
| Composition | 2 protons, 2 neutrons | an electron | radiation (light) |
| Charge | 0 | -1 | 0 |
| Stopped by | paper, skin, clothing | aluminum | lead |

Nuclear Decay Reactions

In problems 2 – 5, fill in the missing particle for each nuclear decay reaction. Then, match each equation to the appropriate type of nuclear decay.



A. alpha emission



B. Net emissions



C electron capture

In problems 6 and 7, write a balanced equation for each nuclear decay reaction.

6. Decay of radium-223 by alpha (α) emission



7. Decay of iodine-126 by electron (β) emission



3. How are the atomic number and mass number of a nuclide affected by Beta Decay?

The mass number does not change but the atomic number increases by 1

9. How are the atomic number and mass number of a nuclide affected by the emission of gamma radiation?

The atomic number and mass number do not change

10. Which has a slightly greater mass in a nuclear reaction, the reactants or the products? Why?

It depends on the type of reaction. A fusion reaction will have greater mass in the products because it is combining two nuclei. A fission reaction will not change mass.

2radioactive Decay Worksheet Answer Key

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Trabal**

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Radioactive Decay Correction Tables Owen H. Wheeler,Anne S. Kay,J. Elisa Trabal,1967 *Decay Schemes of Radioactive Nuclei* A B. S. Dzelepov,L. K. Peker,1966 **Radioactive Decay Tables** D. C. Kocher,1981 **Decay Scheme of $^{45}\text{Rh106}$** W. C. Peacock,1947 **A General Algorithm for Radioactive Decay with Branching and Loss from a**

Medium, 1995 Many areas in the field of health physics require evaluation of the change of radionuclide quantity in a medium with time A general solution to first order compartmental models is presented in this paper for application to systems consisting of one physical medium that contains any number of radionuclide decay chain members The general analytical solution to the problem is first described mathematically and then extended to four applications 1 evaluation of the quantity of radionuclides as a function of time 2 evaluation of the time integral of the quantity during a time period 3 evaluation of the amount in a medium as a function of time following deposition at a constant rate and 4 evaluation of the time integral of the amount in a medium after deposition at a constant rate for a time The solution can be applied to any system involving physical transfers from the medium and radioactive chain decay with branching in the medium The general solution is presented for quantities expressed in units of atoms and activity Unlike many earlier mathematical solutions this solution includes chain decay with branching explicitly in the equations

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Table of Contents 2radioactive Decay Worksheet Answer Key

1. Understanding the eBook 2radioactive Decay Worksheet Answer Key
 - The Rise of Digital Reading 2radioactive Decay Worksheet Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 2radioactive Decay Worksheet Answer 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 2radioactive Decay Worksheet Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2radioactive Decay Worksheet Answer Key
 - Personalized Recommendations
 - 2radioactive Decay Worksheet Answer Key User Reviews and Ratings
 - 2radioactive Decay Worksheet Answer Key and Bestseller Lists
5. Accessing 2radioactive Decay Worksheet Answer Key Free and Paid eBooks
 - 2radioactive Decay Worksheet Answer Key Public Domain eBooks
 - 2radioactive Decay Worksheet Answer Key eBook Subscription Services
 - 2radioactive Decay Worksheet Answer Key Budget-Friendly Options
6. Navigating 2radioactive Decay Worksheet Answer Key eBook Formats

- ePub, PDF, MOBI, and More
- 2radioactive Decay Worksheet Answer Key Compatibility with Devices
- 2radioactive Decay Worksheet Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2radioactive Decay Worksheet Answer Key
 - Highlighting and Note-Taking 2radioactive Decay Worksheet Answer Key
 - Interactive Elements 2radioactive Decay Worksheet Answer Key
- 8. Staying Engaged with 2radioactive Decay Worksheet Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2radioactive Decay Worksheet Answer Key
- 9. Balancing eBooks and Physical Books 2radioactive Decay Worksheet Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2radioactive Decay Worksheet Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2radioactive Decay Worksheet Answer Key
 - Setting Reading Goals 2radioactive Decay Worksheet Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2radioactive Decay Worksheet Answer Key
 - Fact-Checking eBook Content of 2radioactive Decay Worksheet Answer 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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