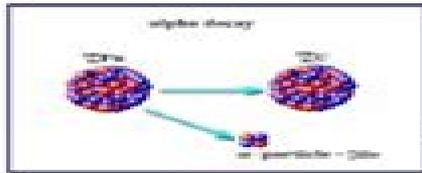


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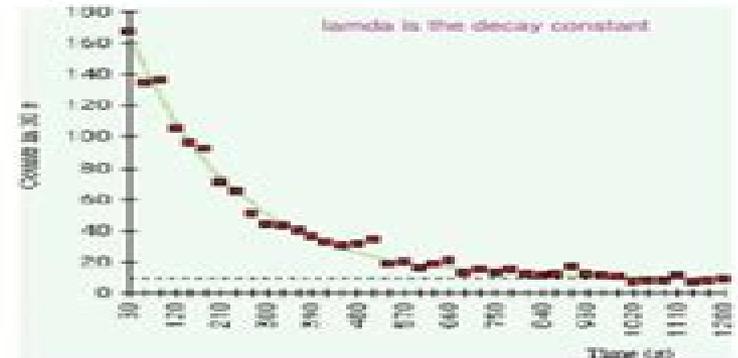
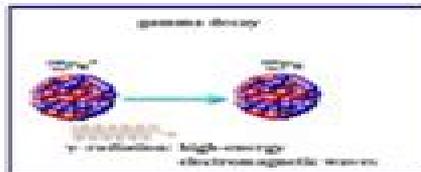
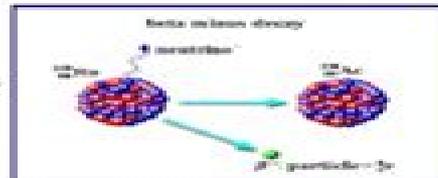
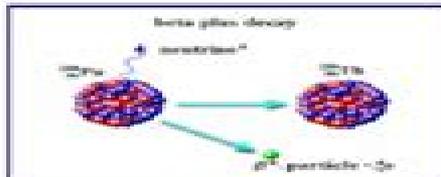
SUMMARY



equation for half life

$$N = N_0 e^{-\lambda t}$$

$$t_{1/2} = \frac{\ln(2)}{\lambda}$$



1

Radiation Physics, Lecture 2

SAMPLE QUESTION

Radio-isotopes Strontium-90 ($T_{1/2} = 28$ years) and Iodine-131 ($T_{1/2} = 8$ days) are both dangerous nuclear fission products, being bone and thyroid seeking respectively.

(a) How long after a nuclear explosion will it take for the ${}^{131}\text{I}$ activity to fall by a factor of 1024?

(b) By what fraction will Sr-90 activity be reduced over 64 years?

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Medani P. Bhandari



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1. Understanding the eBook Radiation Physics Lecture Notes Wordpress
 - The Rise of Digital Reading Radiation Physics Lecture Notes Wordpress
 - Advantages of eBooks Over Traditional Books
2. Identifying Radiation Physics Lecture Notes Wordpress
 - 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 Radiation Physics Lecture Notes Wordpress
 - User-Friendly Interface
4. Exploring eBook Recommendations from Radiation Physics Lecture Notes Wordpress
 - Personalized Recommendations
 - Radiation Physics Lecture Notes Wordpress User Reviews and Ratings

- Radiation Physics Lecture Notes Wordpress and Bestseller Lists
- 5. Accessing Radiation Physics Lecture Notes Wordpress Free and Paid eBooks
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 - Radiation Physics Lecture Notes Wordpress Budget-Friendly Options
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 - Radiation Physics Lecture Notes Wordpress Enhanced eBook Features
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- 8. Staying Engaged with Radiation Physics Lecture Notes Wordpress
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Radiation Physics Lecture Notes Wordpress
- 9. Balancing eBooks and Physical Books Radiation Physics Lecture Notes Wordpress
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Radiation Physics Lecture Notes Wordpress
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Radiation Physics Lecture Notes Wordpress
 - Setting Reading Goals Radiation Physics Lecture Notes Wordpress
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Radiation Physics Lecture Notes Wordpress
 - Fact-Checking eBook Content of Radiation Physics Lecture Notes Wordpress
 - Distinguishing Credible Sources

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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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