

Name:	
Grade & Section:	
Subject:	

Nuclear Decay

Types of Radiation

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

Name	Alpha	Beta	Positron	Gamma
Greek Letter				
Symbol				
Charge				
Stopped by				

Nuclear Decay Reactions

In problem 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. beta emission
- C. electron capture
- D. positron emission



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

6. Decay of Radium-223 by alpha emission



7. Decay of Iodine-126 by positron emission



8. How are the atomic number and mass number of a nuclide affected by positron emission?
9. How are the atomic number and mass number of a nuclide affected by the emission of gamma radiation?
10. Which has a slightly greater mass in a nuclear reaction, the reactants or the product? Why?

Section 25 2 Concept Review Nuclear Decay

MITTAL, V. K., VERMA, R. C., GUPTA, S., \.
C.

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Physics Holt Rinehart & Winston, 2000-12 **Nuclear Science Abstracts** ,1976-02 *Holt Physics* Raymond A. Serway, 2002 **MCAT Physical Sciences: Physics Key Concepts Review** E Staff, Learn and review on the go Use Quick Review MCAT Physics Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all students preparing for the MCAT **Physics, Volume 2** John D. Cutnell, Kenneth W. Johnson, David Young, Shane Stadler, 2021-10-05 In the newly revised Twelfth Edition of Physics Volume 2 an accomplished team of physicists and educators delivers an accessible and rigorous approach to the skills students need to succeed in physics education Readers will learn to understand foundational physics concepts solve common physics problems and see real world applications of the included concepts to assist in retention and learning The text includes Check Your Understanding questions Math Skills boxes multi concept problems and worked examples The second volume of a two volume set Volume 2 explores ideas and concepts like the reflection refraction and wave particle duality of light Throughout students knowledge is tested with concept and calculation problems and team exercises that focus on cooperation and learning **Applied Mechanics Reviews** ,1974 **Monthly Catalog of United States Government Publications** ,1959

INTRODUCTION TO NUCLEAR AND PARTICLE PHYSICS, FOURTH EDITION MITTAL, V. K., VERMA, R. C., GUPTA, S., \. C., 2018-09-01 This thoroughly revised book now in its Fourth Edition continues to provide a comprehensive introduction to this increasingly important area of nuclear and particle physics It combines coverage of basic concepts principles and applications along with the latest developments Beginning with the historical developments of the subject properties and constituents of the nucleus quantitative facts about nucleus etc the book moves on to give insights into nuclear models phenomenon of radioactivity and its applications in various fields nuclear reactions including reactions in the Sun and stars photoelectric and Compton effects pair creation different particle accelerators and radiation detectors UNIQUE FEATURES Contains actual experimental data Large number of solved problems to help students comprehend the concepts with ease Provides unsolved problems with answers and review questions to test the students comprehension of the subject NEW TO THE FOURTH EDITION Some sections have been revised and enlarged to enhance their comprehension such as the neutron activation analysis scintillation and HPGe detectors Includes a list of accelerators Provides several new solved and unsolved problems TARGET AUDIENCE B Sc M Sc Physics *Energy Research Abstracts* ,1978-03 **Nuclear Wastes** National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Committee on Separations Technology and Transmutation Systems, 1996-02-23 Disposal of radioactive waste from nuclear weapons production and power generation has caused public outcry and political consternation Nuclear Wastes presents a critical review of some waste management and disposal alternatives to the current national policy of direct

disposal of light water reactor spent fuel The book offers clearcut conclusions for what the nation should do today and what solutions should be explored for tomorrow The committee examines the currently used once through fuel cycle versus different alternatives of separations and transmutation technology systems by which hazardous radionuclides are converted to nuclides that are either stable or radioactive with short half lives The volume provides detailed findings and conclusions about the status and feasibility of plutonium extraction and more advanced separations technologies as well as three principal transmutation concepts for commercial reactor spent fuel The book discusses nuclear proliferation the U S nuclear regulatory structure issues of health safety and transportation the proposed sale of electrical energy as a means of paying for the transmutation system and other key issues **Physics** John D. Cutnell, Kenneth W. Johnson, 2009-09-08 Designed for

medical professionals who may struggle with making the leap to conceptual understanding and applying physics the eighth edition continues to build transferable problem solving skills It includes a set of features such as Analyzing Multiple Concept Problems Check Your Understanding Concepts Calculations and Concepts at a Glance This helps the reader to first identify the physics concepts then associate the appropriate mathematical equations and finally to work out an algebraic solution

Perspectives on Karst Geomorphology, Hydrology, and Geochemistry Russell S. Harmon, Carol M. Wicks, Derek C. Ford, William Blaine White, 2006-01-01 Scientific and Technical Aerospace Reports ,1992 *Title List of Documents Made Publicly Available* U.S. Nuclear Regulatory Commission, 1992 *Index to Nuclear Safety* Nuclear Safety Information Center, J. P. Blakely, Ann Klein, 1969 ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1977 ERDA Research Abstracts United States. Energy Research and Development Administration, 1976

Federal Register , 1990-02 In Situ-produced Cosmogenic Nuclides and Quantification of Geological Processes Lionel L. Siame, Didier L. Bourlès, Erik T. Brown, 2006 In situ produced cosmogenic nuclides can provide chronologies of environmental change over the past few thousand to several millions of years and may be used to quantify a wide range of weathering and sediment transport processes These nuclides are thus now used across a broad spectrum of earth science disciplines including paleoclimatology geomorphology and active tectonics This book is organized around sections that focus on specific aspects of the utilization of cosmogenic nuclides in earth sciences 1 development of new methods for application of in situ produced cosmogenic nuclides burial dating methods extending their utilization to carbonate rich and mafic environments 2 glacial geology Laurentide Ice Sheet northern Alps 3 active tectonics focusing on applications to constrain slip rates of active faults in Asia Tibet and Mongolian Gobi Altay and 4 landscape development quantifying sediment production or erosion rates and processes and application of exposure dating to landslides in Hong Kong Publisher's website

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 $900 \times \frac{2\pi}{60} \text{ rad/s}$ $\omega_0 = 0$ and $t = 60 \text{ s}$ hence angular deceleration $\alpha = \frac{\omega - \omega_0}{t}$ question 3 a bus is moving in a circular track of radius 1000cm with a speed of 10m/s

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