

Nuclear Decay

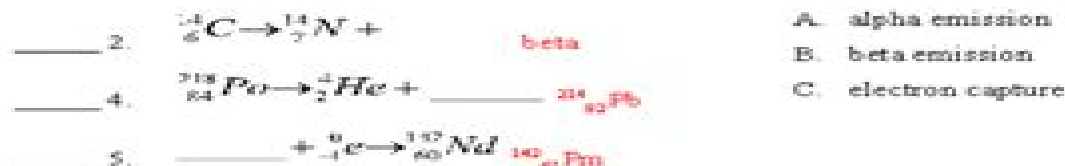
Types of Radiation

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.



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.

Predicting Nuclear Decay Answers

United States. Office of Civil Defense



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Chemistry: The Central Science Theodore L. Brown, H. Eugene LeMay Jr., Bruce E. Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Darius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation *Beta Decay for Pedestrians* Harry J. Lipkin, 2012-12-27 Graduate level text presents aspects of beta decay that can be understood without formal theory making a clear distinction between results dependent and independent of assumptions underlying the theory 1962 edition **Frontier Topics in Nuclear Physics** Werner Scheid, Aurel Sandulescu, 2012-12-06 This volume contains the lectures and contributions presented at the NATO Advanced Study Institute ASI on Frontier Topics in Nuclear Physics held at Predeal in Romania from 24 August to 4 September 1993 The ASI stands in a row of 23 Predeal Summer Schools organized by the Institute of Atomic Physics Bucharest in Predeal or Poiana Brasov during the last 25 years The main topics of the ASI were cluster radioactivity fission and fusion the production of very heavy elements nuclear structure described with microscopic and collective models weak interaction and double beta decay nuclear astrophysics and heavy ion reactions from low to ultrarelativistic energies The content of this book is ordered according to these topics The ASI started with a lecture by Professor Greiner on the Present and future of nuclear physics showing the most important new directions of research and the interdisciplinary relations of nuclear physics with other fields of physics This lecture is printed in the first chapter of the book **CliffsAP Chemistry, 4th Edition** Bobrow Test Preparation Services, 2011-09-26 Your complete guide to a higher score on the AP Chemistry exam Why CliffsAP Guides Go with the name you know and trust Get the information you need fast Written by test prep specialists Contents include Introduction overview of the test and how it is scored proven strategies for each type of question Review of topics tested atom periodic table bonding geometry hybridization stoichiometry gases liquids and solids thermodynamics solutions equilibrium acids and bases kinetics redox nuclear chemistry organic chemistry and writing reactions The Labs feature 20 multiple choice questions multiple free response questions on each topic with answers on each topic with answers and and explanations scoring rubrics and 2 full length practice exams Structured like the actual exam Complete with answers and explanations AP is a registered trademark of the College Board which was not involved in the production of and does not endorse this product **Handbook of Radioactivity Analysis** Michael F. L'Annunziata, 2012-09-01 The updated

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Astroparticle Physics, Gravitation And Cosmology: Predictions, Observations And New Projects - Proceedings Of The Xxx-th International Workshop On High Energy Physics Roman Anatolievich Ryutin,Vladimir Alexeevich Petrov,2015-06-16 This unique volume captures the content of the XXXth International Workshop on High Energy Physics The scope of this volume is much wider than just high energy physics it actually concerns and includes materials from all the most fundamental areas of modern physics research high energy physics proper gravitation and cosmology Presentations embrace both theory and experiment *Introduction to Modern Physics* John Mcgrvey,2012-12-02 Introduction to Modern Physics Second Edition is a 16 chapter text that discusses the principles of modern physics This book deals first with the basic topics of modern science including the atomic nature of matter and electricity the theory of relativity the old quantum theory waves and particles and the Schrödinger equation The subsequent chapters cover other general topics of molecular spectra superconductivity and the biological effects of radiation illustrating the fundamental quantum theory of angular momentum and the harmonic oscillator The remaining chapters explore the properties of nucleus nuclear transformation and interactions of particles This book is an invaluable source for undergraduate quantum mechanics students General

Chemistry Darrell D. Ebbing, 1999 **Nuclear Radiation Interactions** Sidney Yip, 2014-10-24 This book is a treatment on the foundational knowledge of Nuclear Science and Engineering It is an outgrowth of a first year graduate level course which the author has taught over the years in the Department of Nuclear Science and Engineering at MIT The emphasis of the book is on concepts in nuclear science and engineering in contrast to the traditional nuclear physics in a nuclear engineering curriculum The essential difference lies in the importance we give to the understanding of nuclear radiation and their interactions with matter We see our students as nuclear engineers who work with all kinds of nuclear devices from fission and fusion reactors to accelerators and detection systems In all these complex systems nuclear radiation play a central role In generating nuclear radiation and using them for beneficial purposes scientists and engineers must understand the properties of the radiation and how they interact with their surroundings It is through the control of radiation interactions that we can develop new devices or optimize existing ones to make them more safe powerful durable or economical This is why radiation interaction is the essence of this book *Fiscal Year 1987 Department of Energy Authorization: Basic research programs* United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Research and Production, 1986 *X-kit Fet G11 Phys Science Chemist* Clive Long, 2010 Chemistry Neil D. Jespersen, Alison Hyslop, 2021-11-02 Chemistry The Molecular Nature of Matter 8th Edition continues to focus on the intimate relationship that exists between structure at the atomic molecular level and the observable macroscopic properties of matter Key revisions in this edition focus on three areas The deliberate inclusion of more updated real world examples that relate common real world student experiences to the science of chemistry Simultaneously examples and questions have been updated to align them with career concepts relevant to the environmental engineering biological pharmaceutical and medical sciences Providing students with transferable skills with a focus on integrating metacognition and three dimensional learning into the text When students know what they know they are better able to learn and incorporate the material Providing a total solution through New WileyPLUS by fully integrating the enhanced etext with online assessment answer specific responses and additional practice resources The 8th edition continues to emphasize the importance of applying concepts to problem solving to achieve high level learning and increase retention of chemistry knowledge Problems are arranged in an intuitive confidence building order Chemistry John A. Olmsted, Gregory M. Williams, Robert Charles Burk, 2016-01-14 Olmsted Burk is an introductory general chemistry text designed specifically with Canadian professors and students in mind A reorganized Table of Contents and inclusion of SI units IUPAC standards and Canadian content designed to engage and motivate readers distinguish this text from many of the current text offerings It more accurately reflects the curriculum of most Canadian institutions Instructors will find the text sufficiently rigorous while it engages and retains student interest through its accessible language and clear problem solving program without an excess of material that makes most text appear daunting and redundant *Student Manual* United States. Office of Civil Defense, 1968 **SAT Prep Plus 2022**

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