

Chapter 18- Radioactivity and Nuclear Reactions

I. Radioactivity

- A. The nucleus of an atom is composed of protons and neutrons which comprise most of the atom's mass.
- B. The strong force causes protons and neutrons to be attracted to each other in the nucleus.
 - 1. The strong force is powerful only when neutrons and protons are closely packed together.
 - 2. The protons and neutrons in a large nucleus are held less tightly by the strong force than protons and neutrons in a small nucleus.
- C. Radioactivity—nuclear decay which happens when the strong force is not large enough to hold the nucleus together; the nucleus gives off matter and energy.
 - 1. Isotopes are atoms of the same element with varying numbers of neutrons.
 - 2. A nucleus with too many or too few neutrons compared to protons is radioactive.
 - 3. Atomic number—number of protons in an atom
 - 4. Mass number—number of protons and neutrons in a nucleus
- D. Uranium radioactivity was discovered in 1896 by Henri Becquerel; Marie and Pierre Curie discovered the radioactive elements polonium and radium in 1898.

II. Nuclear Decay

- A. Nuclear radiation—particles and energy are released from a decaying nucleus.
- B. Alpha particle—two protons and two neutrons with an electric charge of +2
 - 1. Alpha particles leave charged ions in their path when they travel through matter.
 - 2. Alpha particles are the least penetrating form of nuclear radiation.
 - 3. Alpha particles can cause serious biological damage.
- C. Beta particle—neutron decays into a proton and releases an electron at high speed; more penetrating than alpha particles
- D. Gamma ray—penetrating electromagnetic waves that carry energy, but have no mass or charge
- E. Transmutation—process of one element's changing to another through nuclear decay
- F. The half-life of a radioactive isotope is the length of time it takes half the nucleus to decay; half-lives vary from fractions of a second to billions of years.
- G. Carbon dating can be used to date once-living materials while uranium dating can be used to date rocks.

III. Detecting Radioactivity

- A. Radiation detectors are instruments used to identify ions formed when radiation passes through matter.
 - 1. A cloud chamber detects alpha or beta particles by means of a trail of condensed vapor.
 - 2. A bubble chamber detects radioactive particles by means of a bubble trail in a superheated liquid.
 - 3. Electroscopes can measure charged particles in the air.
- B. A Geiger counter measures radioactivity by producing an electric current when radiation is present.
- C. Background radiation comes from radon gas produced in the Earth's crust, from cosmic rays, and from radioactive isotopes in the body.

Key To Radioactivity And Nuclear Reactions Answers

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GO TO Objective NEET 2021 Physics Guide 8th Edition Disha Experts, Optics and Modern Physics for JEE Advanced, 3E (Free Sample) B. M. Sharma, 2022-05-19 Optics and Modern Physics for JEE Advanced a Cengage Exam Crack Series product is designed to help aspiring engineers focus on the subject of physics from two standpoints To develop their caliber aptitude and attitude for the engineering field and profession To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level Each book in this series approaches the subject in a very conceptual and coherent manner While its illustrative solved examples facilitate easy mastering of the concepts and their applications an array of solved problems exposes the students to a variety of questions that they can expect in the examination The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers *Oswaal NDA-NA Previous Years 12 Solved Question Papers Mathematics, English & GK (Set of 3 Books) (2017-2023) For 2024 Exam* Oswaal Editorial Board, 2023-10-28 Description of the Product 1 100% updated with Fully Solved Paper of April September 2023 2 Concept Clarity with detailed explanations of 2017 I to 2023 Papers 3 Extensive Practice with 600 Questions and Two Sample Question Papers 4 Crisp Revision with Mind Maps 5 Expert Tips helps you get expert knowledge master crack NDA NA in first attempt 6 Exam insights with 4 Year wise 2020 2023 Trend Analysis empowering students to be 100% exam ready Nuclear Waste Management Man-Sung Yim, 2021-12-09 This book lays a comprehensive foundation for addressing the issue of safety in the lifecycle of nuclear waste With the focus on the fundamental principles the book covers key technical approaches to safety in the management of spent nuclear fuel reprocessed high level waste low level waste and decommissioning wastes Behaviors of nuclear waste in natural and engineered systems in relation to safety assessment are also described through the explanation of fundamental processes For any country involved with the use of nuclear power nuclear waste management is a topic of grave importance Although many countries have heavily invested in nuclear waste management having a successful national program still remains a major challenge This book offers substantial guidance for those seeking solutions to these problems As the problem of nuclear waste management is heavily influenced by social factors the connection between technical and social issues in nuclear waste management is also discussed The book is a core text for advanced students in nuclear and environmental engineering and a valuable reference for those working in nuclear engineering and related areas **Regents Exams and Answers: Chemistry--Physical Setting Revised Edition** Barron's Educational Series, Albert Tarendash, 2021-01-05 Barron's Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and

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