

Nuclear Chemistry—The study of the atomic nucleus, its subatomic particles and the changes that may take place within the nucleus.

Types of Decay

1. A sample of which radioisotope emits particles having the greatest mass?
 (1) ^{137}Cs (2) ^{226}Fr (3) ^{59}Fe (4) ^3H
2. As a radioactive element emits gamma radiation only, the atomic number of the element
 (1) Decreases (2) increases (3) remains the same
3. As a sample of a radioactive element decays, its half-life
 (1) decreases (2) increases (3) remains the same
4. Compared to the 37-K, the isotope 42-K has
 (1) a shorter half-life and the same decay mode
 (2) a shorter half-life and a different decay mode
 (3) a longer half-life and the same decay mode
 (4) a longer half-life and a different decay mode
5. Which of the following radioisotopes has the shortest half-life?
 (1) ^{14}C (2) ^3H (3) ^{39}K (4) ^{32}P
6. As ^{14}C decays to ^{14}N , the number of protons in the nucleus
 (1) decreases (2) increases (3) remains the same
7. When cobalt-60 undergoes nuclear decay, it emits
 (1) a positron (2) a neutron (3) a beta particle (4) an alpha particle

Decay Equations

1.



2.



3.



4.



5.



6.



7. Write the decay of Fe-53

Questions On Detection Chemistry Nuclear Packet

**United States. Congress. Joint
Committee on Atomic Energy**



Questions On Detection Chemistry Nuclear Packet:

Nuclear Science Abstracts ,1975 *Fusion Energy Update* ,1981 **Ideas for 21st Century Education** Ade Gafar Abdullah,Ida Hamidah,Siti Aisyah,Ari Arifin Danuwijaya,Galuh Yuliani,Heli S.H. Munawaroh,2017-08-09 Ideas for 21st Century Education contains the papers presented at the Asian Education Symposium AES 2016 held on November 22 23 2016 in Bandung Indonesia The book covers 11 topics 1 Art Education AED 2 Adult Education ADE 3 Business Education BED 4 Course Management CMT 5 Curriculum Research and Development CRD 6 Educational Foundations EDF 7 Learning Teaching Methodologies and Assessment TMA 8 Global Issues in Education and Research GER 9 Pedagogy PDG 10 Ubiquitous Learning UBL 11 Other Areas of Education OAE *Technical News Bulletin* ,1967 ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1977 Energy Research Abstracts ,1993
High-level Radioactive Wastes ,1982 *Energy Abstracts for Policy Analysis* ,1982 *NBS Special Publication* ,1978

AEC Authorizing Legislation, Fiscal Year 1969 United States. Congress. Joint Committee on Atomic Energy,1968 pt 1 Considers S 2880 and companion H R 14905 to authorize appropriations for AEC Focuses on general budget and reactor development program pt 2 Continuation of hearings on AEC FY69 authorization Appendix includes reports a National Accelerator Laboratory Design Report 1968 Universities Research Associates prepared by AEC 1968 p 1223 1456 b Report of Ad Hoc Panel on Low Beta Toroidal Plasma Research Sept 1967 p 1459 1583 c Bronco Oil Shale Study prepared by AEC Interior Dept CER Geonuclear Corp and Lawrence Radiation Laboratory Oct 13 1967 p 1743 1813

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