

Chapter 25 Nuclear Chemistry Practice Problems Answer Key

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804 Chapter 25 Nuclear Chemistry CHAPTER 25 What You'll Learn You will trace the history of nuclear chemistry from dis-covery to application. You will identify types of radioactive decay and solve decay rate problems. You will describe the reac-tions involved in nuclear fission and fusion. You will learn about appli-cations of nuclear reactions

Chapter 25: Nuclear Chemistry
This preview shows page 1 - 3 out of 25 pages. 1196 CHAPTER 25 NUCLEAR CHEMISTRY PRACTICE EXAMPLES 1A (E) A has a mass number of zero and an "atomic number" of 1. Emission of this electron has the effect of transforming a neutron into a proton. ${}_{94}^{241}\text{Pu} \rightarrow {}_{95}^{241}\text{Am} + {}_0^{-1}\text{e}$ ${}_{28}^{58}\text{Ni}$ has a mass number of 58 and an atomic number of 28.

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Nuclear Chemistry Practice Problems
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Section 25.4 Fission and Fusion of Atomic Nuclei In your textbook, read about the process of by which electrical energy is produced in a nuclear power plant. Use the following diagram to complete the passage. D In a nuclear power plant, energy is produced in rea orc by fission reactions that occur in uranium-containing bars called (l)

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(b) numbers of protons and/or neutrons that confer nuclear stability. (c) n/p ratios that confer nuclear stability. (d) atomic masses that confer nuclear stability. (e) atomic masses that indicate fissile isotopes. 2. The actual mass of a ${}_{37}^{85}\text{Rb}$ atom is 84.9126 amu. Calculate the mass defect (amu/atom) for a ${}_{37}^{85}\text{Rb}$ atom. (a) 0.623 amu (b) 0.388 amu

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A nuclear fuel. A fissionable isotope must be present in large enough quantities to sustain a controlled chain reaction. The radioactive isotope is contained in tubes called fuel rods. A moderator. A moderator slows neutrons produced by nuclear reactions so that they can be absorbed by the fuel and cause additional nuclear reactions. A coolant.

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