

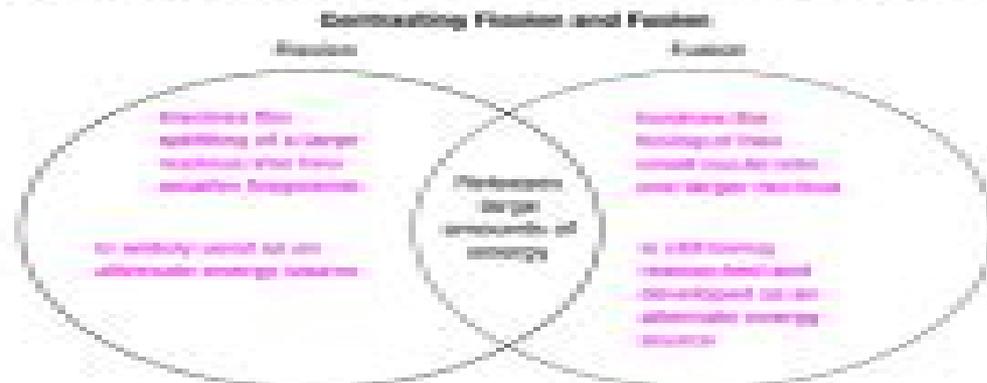
Chapter 18 Nuclear Chemistry

Section 10.4 Fission and Fusion**(pages 308–310)**

This section discusses nuclear fission and the conversion of mass into energy. It also describes the nuclear processes of fusion and fission.

Reading Strategy (page 308)

Comparing and Contrasting As you read, contrast fission and fusion in the Venn diagram below by listing the ways they differ. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

**Nuclear Forces (pages 308–309)**

- Describe the strong nuclear force. The strong nuclear force is the attractive force that holds protons and neutrons together in the nucleus.
- Is the following sentence true or false? Over very short distances, the strong nuclear force is much greater than the electric forces among protons. True
- Electric forces in atomic nuclei depend on the number of protons.
- Is the following sentence true or false? The strong nuclear force on a proton or neutron is much greater in a large nucleus than in a small nucleus. False
- All nuclei with 83 or more protons are radioactive.

Fission (pages 309–310)

- Describe fission. Fission is the splitting of an atomic nucleus into two smaller parts.
- Fission can produce very large amounts of energy from very small amounts of mass.

Fusion Vs Fission Ch 22 1 Answers

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Chemistry Workbook For Dummies Peter J. Mikulecky, Katherine Brutlag, Michelle Rose Gilman, Brian Peterson, 2008-08-06 From liquids and solids to acids and bases work chemistry equations and use formulas with ease Got a grasp on the chemistry terms and concepts you need to know but get lost halfway through a problem or worse yet not know where to begin Have no fear this hands on guide helps you solve many types of chemistry problems in a focused step by step manner With problem solving shortcuts and lots of practice exercises you ll build your chemistry skills and improve your performance both in and out of the science lab You ll see how to work with numbers atoms and elements make and remake compounds understand changes in terms of energy make sense of organic chemistry and more 100s of Problems Know where to begin and how to solve the most common chemistry problems Step by step answer sets clearly identify where you went wrong or right with a problem Understand the key exceptions to chemistry rules Use chemistry in practical applications with confidence

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