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Nuclear Chemistry

Section 10 4

Fission And

Fusion

Chapter 10 Nuclear Chemistry Section 10 4 Fission And Fusion

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Chapter 10 Nuclear Chemistry Section

Section 10.4 - Fission and Fusion. Nuclear

energy is energy released by nuclear reactions. The strong nuclear force is the attractive force that binds protons and neutrons together in the nucleus. Over very short distances, the strong nuclear force is much greater than the electric forces among protons.

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Chapter 10

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**Chapter 10 - Nuclear
Chemistry**

Chapter 10-3 10.9

Write a balanced
nuclear equation for
the β emission of each
isotope as in Example
10.2 and Answer 10.8.

${}_{9}^{20}\text{F}$ ${}_{20}^{92}\text{Sr}$ ${}_{39}^{92}\text{Y}$ ${}_{24}^{55}\text{Cr}$ ${}_{25}^{55}\text{Mn}$

a. ${}_{20}^{38}\text{Sr}$ ${}_{92}^{-1}e$ ${}_{10}^{-1}e$

b. ${}_{92}^{-1}e$ c. ${}_{24}^{55}\text{Cr}$ ${}_{25}^{55}\text{Mn}$

${}_{25}^{55}\text{Mn}$ 10.10

Write a balanced
nuclear equation for
positron emission as in
Example 10.3. a. [1]

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Section 10.1
Fission And
Fusion

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Nuclear Chemistry
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Chapter 10 Nuclear
Chemistry Section 10.3
Artificial Transmutation

(pages 303–305) This
section discusses

transmutations,
transuranium

elements, and particle
accelerators. Reading

Strategy (page 303)

Monitoring Your

Understanding Preview

the Key Concepts, topic
headings, vocabulary,

and figures in this

section. List two things

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you expect to ...

Section 10 4

**Chapter 10 Nuclear
Chemistry Section**

10.3 Artificial ...

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Vocabulary
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Section 10.1: Nuclear
Chemistry CHEM 30A

1. Write the equation
for the nuclear reaction
described in each of
the following
processes: a.

Americium-241
(^{241}Am) undergoes
alpha decay (inside a
smoke detector) b.

Iodine-131 (^{131}I)
undergoes normal beta
decay (used in therapy
for hyperthyroidism)

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Practice Problems

(Chapter 10):

Nuclear Chemistry

To get started finding

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Section 10.1

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nuclear chemistry

section 10 4 fission and

fusion, it ends

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**Chapter 10 Nuclear
Chemistry Section
10 4 Fission And
Fusion**

Chapter 10 Nuclear
Chemistry Physical
Science Reading and
Study Workbook Level
B ... This section
discusses nuclear
forces and the
conversion of mass
into energy. It also
describes the nuclear
processes of fission
and fusion. Reading

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Chapter 10

Nuclear Chemistry
Strategy (page 308)

Comparing and
Contrasting As you
read, contrast fission
and fusion in the

Chapter 10 Nuclear Chemistry Section 10.4 Fission and Fusion

Chapter 10 Nuclear
Chemistry Physical
Science Reading and
Study Workbook Level
B ... This section
discusses the different
types of nuclear

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Chapter 10

Nuclear Chemistry

radiation and how they affect matter. Reading Strategy (page 292)

Section 10.1 Fission And Fusion
Previewing Before you read the section, rewrite the topic headings in the table as how, why, and what questions. As you read, write an answer ...

Chapter 10 Nuclear Chemistry Section 10.1 Radioactivity

308 Chapter 10 FOCUS Objectives 10.4.1

Compare and contrast

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Nuclear Chemistry

nuclear forces. 10.4.2

Describe the process of nuclear fission. 10.4.3

Explain how nuclear reactors are used to produce energy. 10.4.4

Describe the process of nuclear fusion. Build

Vocabulary Word-Part Analysis Remind

students that they can use what they know about word parts to figure ...

Section 10.4 10.4 **Fission and Fusion -**

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Chapter 10

Nuclear Chemistry

Physical Science

The roentgen is a unit that measures nuclear radiation and is equal to the amount of radiation that produces (2×10^9) ion pairs when it passes through (1 cm^3) of air. The primary concern is that ionizing radiation can do damage to living tissues.

10.2: Fission and Fusion - Chemistry

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Chapter 10

Nuclear Chemistry

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Nuclear chemistry is the study of reactions that involve changes in nuclear structure. The chapter on atoms, molecules, and ions introduced the basic idea of nuclear structure, that the nucleus of an atom is composed of protons and, with the exception of ${}^1_1\text{H}$, ${}^1_0\text{n}$, neutrons. Recall that the number of protons in the nucleus is called

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Nuclear Chemistry

the atomic number (Z)
of the element, and the
sum of the ...

**20.1 Nuclear
Structure and
Stability -**

Chemistry: Atoms ...

Modern Chemistry 175

Nuclearchemistry

CHAPTER 21 REVIEW

Nuclear Chemistry

SECTION 4 SHORT

ANSWER Answer the
following questions in
the space provided. 1.

Match each of the

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Nuclear Chemistry

Section 10.4
Fission And Fusion

following statements with the process(es) to which they apply, using one of the choices below: (1) fission only (3) both fission and fusion

**Nuclear Chemistry
Review Answers
Chapter 22**

Chapter 22 Review
Nuclear Chemistry
Section 2 Chapter 22
Review Nuclear
Chemistry Section 2
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Section 10 4
Fission And
Fusion