natural transmutation - Uranium spontaneously decays.

$$^{238}_{92}U \rightarrow ^{234}_{90}Th + ^{4}_{2}He$$

<u>artificial transmutation</u> - bombardment of a stable isotope to force it to decay.

$$^{14}_{7}N + ^{4}_{2}He \rightarrow ^{1}_{1}p + ^{17}_{6}D$$

When the bullets are + charged, they are repelled by the nucleus they are bombarding. To overcome the repulsions, they must be outstand to very high speeds by Posticia

nuclear fission - Heavy nuclei are bombarded with neutrons and split.  $^{1}$  1  $^{235}II$   $> ^{142}D$  = 1  $^{91}V$  = 1 = 2  $^{1}$  = 1

$$_{0}^{1}n + _{92}^{235}U \rightarrow _{56}^{142}Ba + _{36}^{91}Kr + 3(_{0}^{1}n) + E$$

Mass of particles produced is slightly <u>more</u> than the mass of the reactants.

This mass is converted into <u>energy</u>. (E = m c<sup>2</sup>)

required for a Chain sealtion

nuclear reactors: control fission <u>Chain</u> reactions to produce energy dangers:

nuclear fusion - combination of 2 nuclei into 1 with release of

$${}_{1}^{2}H + {}_{1}^{3}H \rightarrow {}_{2}^{4}He + {}_{0}^{1}n + E$$

Mass of particles produced is much MOTE than the mass of the TEXTENS.

This MOSS is converted into energy. (E = MC)

On back, list advantages of and problems with using fusion as an energy source.

CHEMISTRY: A Study of Matter

The issues with using fusion as energy generally just come from concern for the public and their safety due to storage of nuclear material for a long time causing concerns well as radioactivity being a big issue.

# **Note Taking Guide Episode 1502**

L Cohen

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#### **Table of Contents Note Taking Guide Episode 1502**

- 1. Understanding the eBook Note Taking Guide Episode 1502
  - The Rise of Digital Reading Note Taking Guide Episode 1502
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Note Taking Guide Episode 1502
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Note Taking Guide Episode 1502
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Note Taking Guide Episode 1502
  - Personalized Recommendations
  - Note Taking Guide Episode 1502 User Reviews and Ratings
  - Note Taking Guide Episode 1502 and Bestseller Lists
- 5. Accessing Note Taking Guide Episode 1502 Free and Paid eBooks
  - Note Taking Guide Episode 1502 Public Domain eBooks

- Note Taking Guide Episode 1502 eBook Subscription Services
- Note Taking Guide Episode 1502 Budget-Friendly Options
- 6. Navigating Note Taking Guide Episode 1502 eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Note Taking Guide Episode 1502 Compatibility with Devices
  - Note Taking Guide Episode 1502 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Note Taking Guide Episode 1502
  - Highlighting and Note-Taking Note Taking Guide Episode 1502
  - Interactive Elements Note Taking Guide Episode 1502
- 8. Staying Engaged with Note Taking Guide Episode 1502
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Note Taking Guide Episode 1502
- 9. Balancing eBooks and Physical Books Note Taking Guide Episode 1502
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Note Taking Guide Episode 1502
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Note Taking Guide Episode 1502
  - $\circ\,$  Setting Reading Goals Note Taking Guide Episode 1502
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Note Taking Guide Episode 1502
  - Fact-Checking eBook Content of Note Taking Guide Episode 1502
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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