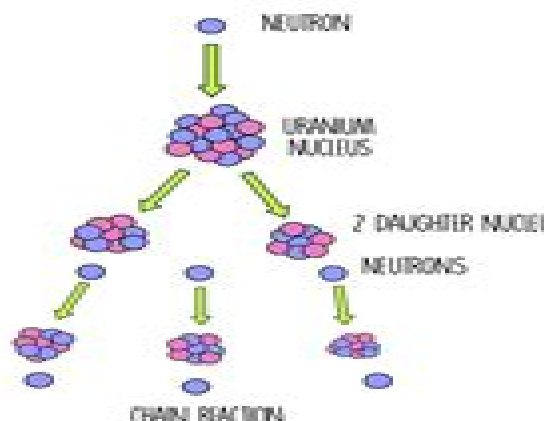




FISSION AND FUSION



Nuclear fission

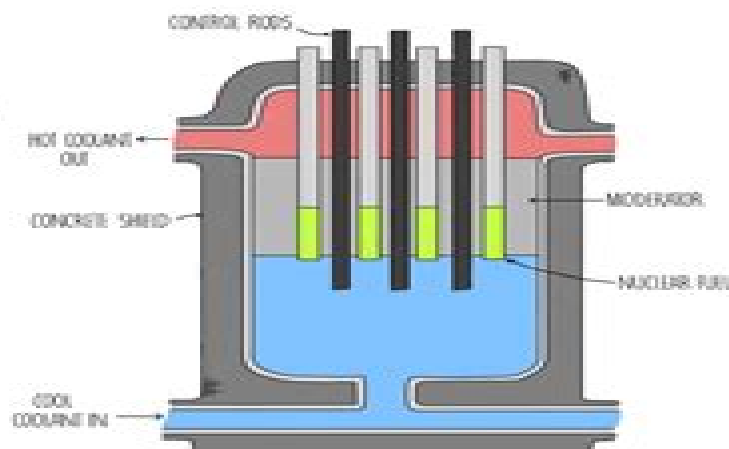
Nuclear fission is the process of splitting a nucleus to release energy. When a uranium-235 nucleus absorbs a neutron, this alters the ratio of protons to neutrons in the nucleus making it unstable.

The unstable nucleus splits into two daughter nuclei and two or three neutrons. These neutrons can be absorbed by another nucleus of uranium, which will in turn split into two nuclei and more neutrons in a chain reaction. During each fission event, energy is released in the form of kinetic energy.

The chain reaction which occurs during nuclear fission is responsible for the energy released when an atomic bomb is detonated.

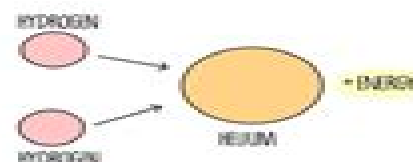
Nuclear fission is used in nuclear reactors to generate electricity. The kinetic energy of the neutrons is used to heat water. The water evaporates into steam which turns a turbine, which in turn drives a generator to produce electricity.

- The moderator in a nuclear reactor slows down neutrons so that they can be more easily absorbed by an uranium nucleus.
- The control rods absorb extra neutrons so that only a single neutron is released per fission event.



Nuclear fusion

Nuclear fusion is where two small, light nuclei collide at high speed and join together to form one heavy nucleus. Fusion reactions occur in stars when two hydrogen nuclei fuse to form a helium nucleus. Some mass is converted into energy, which radiates out from the star. Fusion can only occur under extreme temperatures and pressures, such as those found in the centre of the Sun.



Advantages

- Does not produce polluting gases
- Low fuel costs
- Only small amounts of fuel needed
- Power stations have a long lifetime

Disadvantages

- Radioactive waste needs to be carefully disposed of
- Accidents can be catastrophic
- Disposal of hot water can harm marine life
- Cannot adjust output in response to changes in demand

Questions

1. Describe how nuclear fission can result in a chain reaction.
2. How does a nuclear reactor generate electricity?
3. What is the purpose of the following in a nuclear reactor:
 - control rods
 - moderator
 - concrete shield
4. What is the difference between nuclear fission and nuclear fusion?
5. Give some advantages and disadvantages of nuclear power.

Fission Versus Fusion Worksheet

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Table of Contents Fission Versus Fusion Worksheet

1. Understanding the eBook Fission Versus Fusion Worksheet
 - The Rise of Digital Reading Fission Versus Fusion Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Fission Versus Fusion Worksheet
 - 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 Fission Versus Fusion Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fission Versus Fusion Worksheet

- Personalized Recommendations
- Fission Versus Fusion Worksheet User Reviews and Ratings
- Fission Versus Fusion Worksheet and Bestseller Lists
- 5. Accessing Fission Versus Fusion Worksheet Free and Paid eBooks
 - Fission Versus Fusion Worksheet Public Domain eBooks
 - Fission Versus Fusion Worksheet eBook Subscription Services
 - Fission Versus Fusion Worksheet Budget-Friendly Options
- 6. Navigating Fission Versus Fusion Worksheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Fission Versus Fusion Worksheet Compatibility with Devices
 - Fission Versus Fusion Worksheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fission Versus Fusion Worksheet
 - Highlighting and Note-Taking Fission Versus Fusion Worksheet
 - Interactive Elements Fission Versus Fusion Worksheet
- 8. Staying Engaged with Fission Versus Fusion Worksheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fission Versus Fusion Worksheet
- 9. Balancing eBooks and Physical Books Fission Versus Fusion Worksheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fission Versus Fusion Worksheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Fission Versus Fusion Worksheet
 - Setting Reading Goals Fission Versus Fusion Worksheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Fission Versus Fusion Worksheet

- Fact-Checking eBook Content of Fission Versus Fusion Worksheet
- 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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