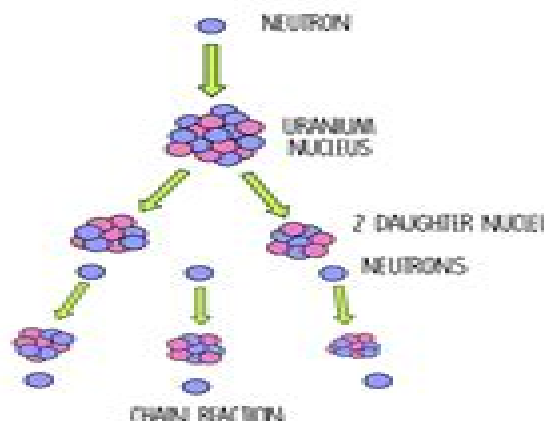


FISSION AND FUSION



Nuclear fission

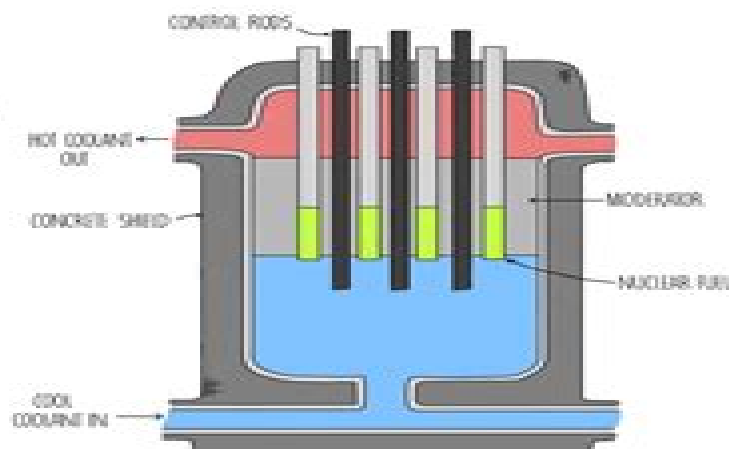
Nuclear fission is the process of splitting a nucleus to release energy. When a uranium-235 nucleus absorbs a neutron, this alters the ratio of protons to neutrons in the nucleus making it unstable.

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.

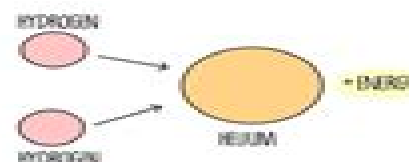
Nuclear fission is used in nuclear reactors to generate electricity. The kinetic energy of the neutrons is used to heat water. The water evaporates into steam which turns a turbine, which in turn drives a generator to produce electricity.

- 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.

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