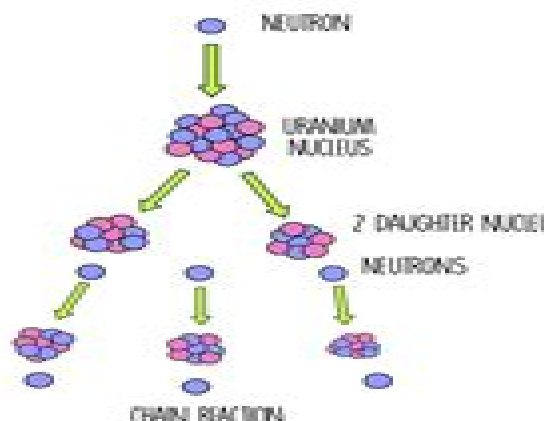




FISSION AND FUSION



Nuclear fission

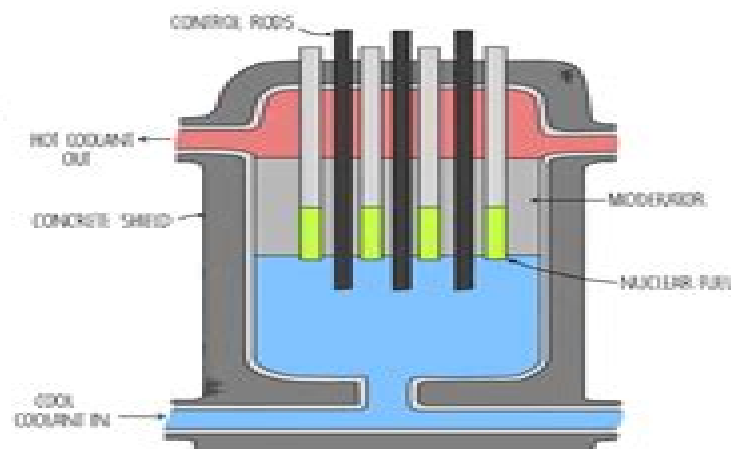
Nuclear fission is the process of splitting a nucleus to release energy. When a uranium-235 nucleus absorbs a neutron, this alters the ratio of protons to neutrons in the nucleus making it unstable.

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.

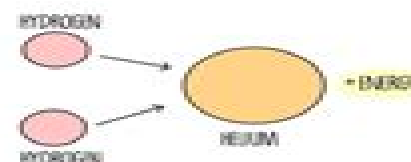
Nuclear fission is used in nuclear reactors to generate electricity. The kinetic energy of the neutrons is used to heat water. The water evaporates into steam which turns a turbine, which in turn drives a generator to produce electricity.

- 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 Answers

Florence Pope



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Resources in education ,1987-07 **Merrill Chemistry** Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998

Resources in Education ,1987 **Science Spectrum** Holt Rinehart & Winston,Holt, Rinehart and Winston

Staff,2003-03 *Nuclear Fusion* Henry Rainsford Hulme,Antony McB. Colliou,1969 **Nuclear Fusion 32 Success**

Secrets - 32 Most Asked Questions on Nuclear Fusion - What You Need to Know Florence Pope,2014-10-19 Few Other Nuclear fusion Titles Offer So Much There has never been a Nuclear fusion Guide like this It contains 32 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Nuclear fusion A quick look inside of some of the subjects covered Nuclear fusion Thermonuclear fusion Nuclear fusion fission hybrid Nuclear fusion Overview Nuclear fusion fission hybrid Engineering considerations Bomb Nuclear Fusion Mass defect Nuclear fusion Nuclear fusion fission hybrid Use to dispose of nuclear waste D T fusion Thermonuclear fusion Nuclear physics Nuclear fusion Nuclear fusion Other principles Nuclear fusion fission hybrid Rationale Nuclear fusion Muon catalyzed fusion Fission power Hybrid nuclear fusion fission Nuclear fusion Inertial confinement fusion Fusion power Using a secret small scale nuclear fusion system Laser weapon Nuclear fusion Fission power Nuclear fusion Nuclear fusion fission hybrid Fuel cycle Nuclear fusion fission hybrid Safety Nuclear fusion Beam beam or beam target fusion Andrea Rossi entrepreneur Claims regarding nuclear fusion Interstellar travel Nuclear fusion rockets and much more **Cold Nuclear Fusion** Florian Ion Petrescu,2012-07-01 Nuclear fusion is the process by which two or more atomic nuclei join together or fuse to form a single heavier nucleus During this process matter is not conserved because some of the mass of the fusing nuclei is converted to energy which is released The binding energy of the resulting nucleus is greater than the binding energy of each of the nuclei that fused to produce it Fusion is the process that powers active stars Creating the required conditions for fusion on Earth is very difficult to the point that it has not been accomplished at any scale for protium the common light isotope of hydrogen that undergoes natural fusion in stars In nuclear weapons some of the energy released by an atomic bomb fission bomb is used for compressing and heating a fusion fuel containing heavier isotopes of hydrogen and also sometimes lithium to the point of ignition At this point the energy released in the fusion reactions is enough to briefly maintain the reaction Fusion based nuclear power experiments attempt to create similar conditions using far lesser means although to date these experiments have failed to maintain conditions needed for ignition long enough for fusion to be a viable commercial power source There are many experiments examining the possibility of fusion power for electrical generation Nuclear fusion has great potential as a sustainable energy source This is due to the abundance of hydrogen on the planet and the inert nature of helium the nucleus which would result from the nuclear fusion of hydrogen atoms Unfortunately a controlled nuclear fusion reaction has

not yet been achieved due to the temperatures required to sustain one. In hot fusion it needs a temperature of 4000 million degrees. Without a minimum of 3000 million degrees we can't make the hot fusion reaction to obtain the nuclear power. Today we have just 150 million degrees made. To replace the lack of necessary temperature it uses various tricks. Because obtaining the necessary huge temperature for hot fusion is still difficult, it is time to focus us on cold nuclear fusion. We need to bomb the fuel with accelerated deuterium nuclei. The fuel will be made from heavy water and lithium. The optimal proportion of lithium will be tested. It would be preferable to keep fuel in the plasma state. Research into developing controlled thermonuclear fusion for civil purposes also began in earnest in the 1950s and it continues to this day. Two projects, the National Ignition Facility and ITER, are in the process of reaching breakeven after 60 years of design improvements developed from previous experiments. The best results were obtained with the Tokamak type installations.

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Fusion for Neutrons and Subcritical Nuclear Fission: Proceedings of the International Conference International Workshop on Fusion Neutrons and Subcritical Nuclear Fission, 2012.

What's the Difference Between Fission and Fusion? | Children's Physics of Energy Baby Professor, 2017-02-15. Although fission and fusion are both nuclear reactions, they are miles apart in terms of definitions. Fission splits while fusion combines. You can use this child-friendly book of physics to teach the principles of nuclear reactions in the simplest manner. The carefully selected images will serve as an additional guide to influence the visual effectiveness of this resource. Get a copy today.

Nuclear Fusion and Waste John R. Vacca, 2010-06-15. Fusion Energy: The Awesome Power Behind The Sun And Stars Has Long Been The Holy Grail Of Nuclear Researchers Worldwide. Its Proponents Argue The Vast Potential For Cheap Clean Energy From Hydrogen Isotopes Extracted From Sea Water Without The Long Term Radioactive Waste Associated With Nuclear Fission. While Great Strides Have Been Made Over The Past Few Decades, The High Cost Of Research And Expensive Hardware Limits Most Of The Progress. Over 2 000 Companies Are Currently Active In The Nuclear Fusion Energy Field Including Some Of The World's Largest Corporations Such As Boeing. Governments And Corporations Worldwide Have Ploughed Over 60 Billion Into The Nuclear Fusion And Radioactive Waste Problem. In 2006 Alone In The Last 15 Years Over A Dozen Nobel Prizes Have Been Awarded In The Nuclear Fusion Field. Nuclear Fusion And Waste Describes The Key Concepts And Principles Then Analyzes The Opinions Of The International Scientific Community And Commercial Industry On The Subject Of Nuclear Fusion And Radioactive Waste. Contributions, Interviews And Comments From Leading Scientists And Nobel Laureates Provide A Forum Of Information And Opinions On The Benefits And Pitfalls Of Nuclear Fusion Including The Actual Potential For Viable Energy Solutions.

Fission, Fusion and the Energy Crisis S. E. Hunt, 1974.

Research Needs for Fusion-Fission Hybrid Systems. Report of the Research Needs Workshop (ReNeW) Gaithersburg, Maryland, September 30 - October 2, 2009, 2009.

Largely in anticipation of a possible nuclear renaissance, there has been an enthusiastic renewal of interest in the fusion

fission hybrid concept driven primarily by some members of the fusion community A fusion fission hybrid consists of a neutron producing fusion core surrounded by a fission blanket Hybrids are of interest because of their potential to address the main long term sustainability issues related to nuclear power fuel supply energy production and waste management As a result of this renewed interest the U S Department of Energy DOE with the participation of the Office of Fusion Energy Sciences OFES Office of Nuclear Energy NE and National Nuclear Security Administration NNSA organized a three day workshop in Gaithersburg Maryland from September 30 through October 2 2009 Participants identified several goals At the highest level it was recognized that DOE does not currently support any R D in the area of fusion fission hybrids The question to be addressed was whether or not hybrids offer sufficient promise to motivate DOE to initiate an R D program in this area At the next level the workshop participants were asked to define the research needs and resources required to move the fusion fission concept forward The answer to the high level question was given in two ways On the one hand when viewed as a standalone concept the fusion fission hybrid does indeed offer the promise of being able to address the sustainability issues associated with conventional nuclear power On the other hand when participants were asked whether these hybrid solutions are potentially more attractive than contemplated pure fission solutions that is fast burners and fast breeders there was general consensus that this question could not be quantitatively answered based on the known technical information Pure fission solutions are based largely on existing both fusion and nuclear technology thereby prohibiting a fair side by side comparison Another important issue addressed at the conference was the time scale on which long term sustainability issues must be solved There was a wide diversity of opinion and no consensus was possible One group primarily composed of members of the fission community argued that the present strategies with respect to waste management on site storage and fuel supply from natural uranium would suffice for at least 50 years with the main short term problem being the economics of light water reactors LWRs Many from the fusion community believed that the problems particularly waste management were of a more urgent nature and that we needed to address them sooner rather than later There was rigorous debate on all the issues before during and after the workshop Based on this debate the workshop participants developed a set of high level Findings and Research Needs and a companion set of Technical Findings and Research Needs In the context of the Executive Summary it is sufficient to focus on the high level findings which are summarized

Fission, Fusion and the Energy Crisis Stanley E. Hunt,1976 **Fusion-fission Systems Analysis and the Impact of Nuclear Data Uncertainties on Design** Mahmoud Zaky H. M. Youssef,1980 **Nuclear Fission and Fusion in a Random-walk Model** Mr. Ajeet Singh,2018-05-14 Analyzes nuclear fission and fusion phenomena using random walk models offering a mathematical and physical perspective on energy generation and particle interactions Fusion-fission Reactions Near and Below Coulomb Barrier Energies Evita Vulgaris,1985 Fission Or Fusion ,1950 *Fusion for Neutrons and Subcritical Nuclear Fission* ,2012

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