

Nuclear fusion



1. Consider the reaction represented by the equation:



- a) Use the relative atomic mass data below to find the energy released when a tritium nucleus fuses with a deuterium nucleus.

$${}^3\text{H} = 3.016049 \text{ u}$$

$${}^2\text{H} = 2.014102 \text{ u}$$

$${}^4\text{He} = 4.002604 \text{ u}$$

$$n = 1.008665 \text{ u}$$

- b) How much energy would become available from the fusion of about 2 grams of deuterium with 3 grams of tritium?

2. A thermonuclear reaction is one which is caused by the energetic collisions of nuclei in a gas at very high temperatures. What temperatures would give the particles a mean translational energy of about 0.2 fJ, and thus enable the reaction to proceed?
3. In the Sun, fusion may take place between deuterium and tritium nuclei (see the equation in Q1). The total final mass of the particles is 5.0113 u. The energy released is $2.8 \times 10^{-12} \text{ J}$.
- a) Find the mass equivalent, in kg, of the energy released.
b) Find the mass equivalent, in u, of the energy released.
c) Use the answer to b) to estimate the total mass of the nuclei, in u, before fusion.
4. Two almost stationary deuterium nuclei (${}^2\text{H}$) can fuse to form a tritium nucleus (${}^3\text{H}$) and a proton. This releases energy of $6.4 \times 10^{-12} \text{ J}$.
- a) In what form is the energy released?
b) Write an equation for this reaction.
c) Calculate the ratio of the speed of the proton to that of the tritium nucleus.
d) Calculate the ratio of the kinetic energy of the proton to that of the tritium nucleus.
5. The solar constant (the mean intensity of solar radiation arriving at the Earth) is 1.4 kW m^{-2} . If the mean distance of the Earth from the Sun is $1.5 \times 10^{11} \text{ m}$, what is
- a) the power of the Sun
b) the rate of loss of mass of the Sun?
6. Calculate the energy in MeV released in the fusion reaction:



Use data from Q1 (${}^3\text{H} = 1.007825 \text{ u}$; $1\text{u} = 1.66 \times 10^{-27} \text{ kg}$)

Answers: Q1. a) 2.8 pJ b) 1.7 TJ Q2. 10^7 K Q3. a) $3.1 \times 10^{-29} \text{ kg}$ b) 0.0187 u c) 5.0300 u Q4. c) 3:1 d) 3:1 Q5. a) $4.0 \times 10^{26} \text{ W}$ b) $4.4 \times 10^9 \text{ kg s}^{-1}$ Q6. 4.03 MeV

Q sources: Q1 [=63-45] & Q2 [=63-46] from pp 193 & 194, *Questions and problems in pre-university physics* (Whelan & Hodgson); Q3 [=3] & Q4 [=9], p 186, *Advanced level study guides: physics* (Arnold & Bloor); Q5 [=14.51], p157 *Practice in physics* (Akrill et al); Q6 [=Q3, Ex.29.1] p237, *Calculations in A-level physics* (Rounce & Lowe).

Fission And Fusion Of Atomic Nuclei Worksheet

Chandan Sengupta



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Choices Massachusetts Teachers Association (1953-),National Education Association of the United States,1983 Ten lessons on the evolution of the nuclear arms race the nature and consequences of using nuclear weapons and new ways that conflicts among nations might be resolved are presented for the junior high school level The unit contains age appropriate materials to equip students with skills and knowledge to understand what choices can be made to ensure a peaceful and secure future Also conflict is addressed on a personal level so that students can analyze their own behavior and understand the importance of communicating negotiating and dealing with aggression through nonviolent means Specific topics covered are the effects of the first atomic bomb conflict on a personal level communication negotiation and compromise nuclear war the arms race escalation relations between the United States and the Soviet Union reducing risks of nuclear war the development of one's own opinions and the use of imagination in considering alternative futures For the final lesson students embark on a group or class project that will allow them to act on their own knowledge and feelings Students are involved in

simulation and role play and in doing case studies and worksheets Each lesson lists goals activities and materials required Reproducible student worksheets and quizzes are also provided Appendices contain a list of resource materials fact sheets and background information teacher and student glossaries and forms for teacher and student evaluations KC **Fossil Fuels** ,1985 **Merrill Chemistry** Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998 *Nuclear Fission* Isaac Asimov,1972 *Energy From The Nucleus: The Science And Engineering Of Fission And Fusion* Gerard M Crawley,2016-08-11 Nuclear energy is important both as a very large energy resource and as a source of carbon free energy However incidents such as the Fukushima Daiichi nuclear disaster 2011 the Chernobyl disaster 1986 and the Three Mile Island accident 1979 have cast doubts on the future of nuclear fission as a major player in the future energy mix This volume provides an excellent overview of the current situation regarding nuclear fission as well as a description of the enormous potential advantages offered by nuclear fusion including an essentially unlimited fuel supply with minimal environmental impact Energy from the Nucleus focuses on the two main approaches to producing energy from the nucleus fission and fusion The chapters on nuclear fission cover the status of current and future generations of reactors as well as new safety requirements and the environmental impact of electricity production from nuclear fission The chapters on nuclear fusion discuss both inertial confinement fusion and magnetic confinement fusion including the new international fusion test facility ITER The expertise of the authors who are active participants in the respective technologies ensures that the information provided is both reliable and current Their views will no doubt enlighten our understanding of the future of energy from the nucleus Nuclear Fusion and Fission Fiona Young-Brown,2016-07-15 Nuclear Fusion and Fission delves into nuclear physics and the scientists responsible for the discovery of splitting and fusing an atom The book begins with the very basic building blocks of science breaking down the different types of energy and how we use them the materials that make up an atom and our search for the perfect renewable energy source Set against the cultural backdrop of World War II later chapters follow each significant theory that led to the creation of the world s most dangerous weapon as well as some of its most widely used medical and food production processes today **Theory of Nuclear Fission** Hans J. Krappe,Krzysztof Pomorski,2012-02-04 This book brings together various aspects of the nuclear fission phenomenon discovered by Hahn Strassmann and Meitner almost 70 years ago Beginning with an historical introduction the authors present various models to describe the fission process of hot nuclei as well as the spontaneous fission of cold nuclei and their isomers The role of transport coefficients like inertia and friction in fission dynamics is discussed The effect of the nuclear shell structure on the fission probability and the mass and kinetic energy distributions of the fission fragments is presented The fusion fission process leading to the synthesis of new isotopes including super heavy elements is described The book will thus be useful for theoretical and experimental physicists as well as for graduate and PhD students 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 need 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

Government Reports Announcements & Index ,1987-05

The Curve of Binding Energy Paul F. Kisak,2016-05-31

Nuclear binding energy is the energy that would be required to disassemble the nucleus of an atom into its component parts These component parts are neutrons and protons which are collectively called nucleons The binding energy of nuclei is due to the attractive forces that hold these nucleons together and this is usually a positive number since most nuclei would require the expenditure of energy to separate them into individual protons and neutrons The mass of an atomic nucleus is usually less than the sum of the individual masses of the constituent protons and neutrons according to Einstein s equation $E = mc^2$ and this missing mass is known as the mass defect and represents the energy that was released when the nucleus was formed The term nuclear binding energy may also refer to the energy balance in processes in which the nucleus splits into fragments composed of more than one nucleon If new binding energy is available when light nuclei fuse or when heavy nuclei

split either process can result in release of this binding energy This energy may be made available as nuclear energy and can be used to produce electricity as in nuclear power or in a nuclear weapon When a large nucleus splits into pieces excess energy is emitted as photons gamma rays and as the kinetic energy of a number of different ejected particles nuclear fission products The nuclear binding energies and forces are on the order of a million times greater than the electron binding energies of light atoms like hydrogen The mass defect of a nucleus represents the mass of the energy of binding of the nucleus and is the difference between the mass of a nucleus and the sum of the masses of the nucleons of which it is composed

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