

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.

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

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

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

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

- 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 Fusion Answer Key

Rosina Ehmann

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Publications United States. National Bureau of Standards,1981 **Prevention, Detection and Response to Nuclear and Radiological Threats** Samuel Apikyan,David Diamond,Ralph Way,2007-12-14 Since the end of the Cold War the nuclear threats facing the world are dramatically evolving and have become even much more complex However the events of the past years have proved the necessity to reevaluate these threats on a level never before considered The need to prevent detect and respond to Nuclear Radiological threats leads to many requirements that are not met by current scientific technologies and scientific communities For this concern now we are aware and recognize the first that no single institution no single country possesses all the required assets to address these complex problems It will require the formation of international science and technology teams that combine multiple scientific disciplines and span from basic

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Metabolomics in Neurodegenerative Disease Brian Green,2020-04-21 The range of human neurodegenerative diseases continues to pose significant unmet medical needs for societies around the world The progressive and terminal nature of these conditions places a considerable personal burden on the individual affected but also on public health systems and health services Tens of millions of people are indiscriminately affected by various dementias which are rising at an alarming rate There are no cures for many conditions and it is clear that treatments applied as early as possible could greatly improve outcomes for patients Therefore new disease classification and diagnostic tools should be a key priority Metabolomics represents a relatively new field of analytical science which can be extremely useful in the early diagnosis of disease The relatively unique feature of metabolites is that they sit at the intersection between the genetic background of an organism and its environment Because many neurodegenerative diseases are not genetically inherited instead having a range of known genetic risk factors and also a large number of unknown environmental triggers the field of metabolomics offers great promise for the discovery of new biologically and clinically relevant biomarkers for neurodegenerative disorders It is already bringing forward new knowledge in terms of the mechanisms of neurodegenerative disease

Energy Research Abstracts ,1988

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