

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 fJ 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

**Sten Orrenius, Lester Packer, Enrique
Cadenas**



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AP Physics 2 with Online Tests Kenneth Rideout, Jonathan Wolf, 2020-07-07 Barron's brand new AP Physics 2 with Online Tests provides four practice tests and key review for the AP Physics 2 exam. The College Board has announced that there are May 2021 test dates available on May 3/7 and May 10/14, 2021. Content corresponds to the topics covered in a second-year algebra-based physics class. AP Physics 2 helps students review electric, magnetic, and gravitational fields, circuits, and capacitance, fluid dynamics, thermodynamics, optics, and modern physics. AP Physics 2 includes two practice tests in the book with all questions answered and explained, two online practice tests with all questions answered and explained, a diagnostic test in the book to help students target areas where they need more study, practice questions and review covering all test areas, tips and advice for dealing with the new problem types introduced on this test. **E3 Chemistry Guided Study Book - 2018 Home Edition (Answer Key Included)** Effiong Eyo, 2017-12-08 Chemistry students and homeschoolers go beyond just passing. Enhance your understanding of chemistry and get higher marks on homework, quizzes, tests, and the regents exam with E3 Chemistry Guided Study Book 2018. With E3 Chemistry Guided Study Book, students will get clean, clear, engaging, exciting, and easy-to-understand high school chemistry concepts with emphasis on New York State Regents Chemistry. The Physical Setting: Easy-to-read format to help students easily remember key and must-know chemistry materials. Several example problems with guided step-by-step solutions to study and follow. Practice multiple-choice and short-answer questions along side each concept to immediately test student understanding of the concept. 12 topics of Regents question sets and 2 most recent Regents exams to practice and prep for any Regents Exam. This is the Home Edition of the book. Also available in School Edition. ISBN 978-1979088374. The Home Edition contains answer key to all questions in the book. Teachers who want to recommend our Guided Study Book to their students should recommend the Home Edition. Students and parents whose school is not using the Guided Study Book as instructional material, as well as homeschoolers, should also buy the Home edition. The School Edition does not have the answer key in the book. A separate answer key booklet is provided to teachers with a class order of the book. Whether you are using the school or Home Edition, our E3 Chemistry Guided Study Book makes a great supplemental instructional and test prep resource that can be used from the beginning to the end of the school year. PLEASE NOTE: Although reading contents in both the school and home editions are identical, there are slight differences in question numbers, choices, and pages between the two editions. Students whose school is using the Guided Study Book as instructional material SHOULD NOT buy the Home Edition. Also available in paperback print. **AP Physics 2: 4 Practice Tests + Comprehensive Review + Online Practice** Kenneth Rideout, Jonathan Wolf, 2021-02-02 Be prepared for exam day with Barron's Trusted content from AP experts. Barron's AP Physics 2 2021/2022 includes in-depth content review and online practice. It's the only book you'll need to be prepared for exam day. Written by Experienced Educators. Learn from Barron's: all content is written and reviewed by AP experts. Build your understanding with

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How Primates Eat Joanna E. Lambert, Margaret A. H. Bryer, Jessica M. Rothman, 2024-07-16 Exploring everything from nutrients to food acquisition and research methods a comprehensive synthesis of the study of diet and feeding in nonhuman primates What do we mean when we say that a diet is nutritious Why can some animals get all the energy they need from eating leaves while others would perish on such a diet Why don t mountain gorillas eat fruit all day as chimpanzees do Answers to these questions about food and feeding are among the many tasty morsels that emerge from this authoritative book Informed by the latest scientific tools and millions of hours of field and laboratory work on species across the primate order and around the globe this volume is an exhaustive synthesis of our understanding of what why and how primates eat State of the art information presented at physiological behavioral ecological and evolutionary scales will serve as a road map for graduate students researchers and practitioners as they work toward a holistic understanding of life as a primate and the urgent conservation consequences of diet and food availability in a changing world

Publications United States. National Bureau of Standards, 1981 *Science & Technology in China: A Roadmap to 2050*, 2009-09-30 China s modernization is viewed as a transformative revolution in the human history of modernization As such the Chinese Academy of Sciences CAS decided to give higher priority to the research on the science and technology S T roadmap for priority areas in China s modernization process What is the purpose And why is it Is it a must I think those are substantial and signifcant questions to start things forward Significance of the Research on China s S T Roadmap to 2050 We are aware that the National Mid and Long term S T Plan to 2020 has already been formed afer two years hard work by a panel of over 2000 experts and scholars brought together from all over China chaired by Premier Wen Jiabao Tis clearly shows that China has already had its S T blueprint to 2020 Ten why did CAS conduct this research on China

s S T roadmap to 2050 In the summer of 2007 when CAS was working out its future strategic priorities for S T development it realized that some issues such as energy must be addressed with a long term view As a matter of fact some strategic researches have been conducted over the last 15 years on energy but mainly on how to best use of coal how to best exploit both domestic and international oil and gas resources and how to develop nuclear energy in a discreet way Renewable energy was of course included but only as a supplementary energy

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 research to systems engineering and manufacturing the second that fundamental scientific challenges must be overcome to achieve new and improved technologies that effectively counter radiological and nuclear threats The primary goal of any counter terrorism effort is to prevent an attack as early in the development stages as possible Many current approaches employed to prevent a nuclear radiological attack rely upon detection of materials Another general category of threat reduction involves preventing acquisition or utilization of the materials Therefore while the organizers and participants of this meeting recognize that the Nuclear Radiological threats is extremely broad we necessarily limited the scope of this NATO Advanced Research Workshop and the programme focused on science and technology challenges associated with our need to prevent detect and respond to Nuclear Radiological threats The book can serve as a tool for communicating the outcomes of the workshop not only to the multi national scientific and technical communities engaged in combating nuclear radiological terrorism but also to those working at governmental and policy levels whose actions affect the directions the science takes and how the technology is incorporated into country specific national systems for combating nuclear radiological terrorism

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), 1981

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Energy Research Abstracts, 1986

Dictionary of the Modern United States Military S.F. Tomajczyk, 2008-02-11 Warspeak the language of the military can be for many civilians and for members of differing services an unintelligible hodgepodge of acronyms slang terms and field operation expressions Few laypersons may know that the Five F s is a derogatory expression though Army Navy Marine Air Force Coast Guard and others know or can

infer that chairborn commandos are administrative and support personnel The more than 15 000 entries in this comprehensive dictionary provide an inside look at the United States military Weapons systems governmental agencies electronic warfare medical terms military infrastructure communications satellites and intelligence systems are among the topics covered in depth Also detailed are the acronyms and slang terms used by the soldiers in the field The work provides numerous cross references for ease of use along with a bibliography of over 2 200 sources

The Chimpanzees of the Tai Forest Christophe Boesch,Hedwige Boesch-Achermann,2000 The chimpanzees are the closest living evolutionary relatives to our own species Homo sapiens As such they have long exerted a fascination over those with an interest in human evolution and what makes humans unique Chrisophe Boesch and Hedwige Boesch Acherman undertook an incredible observational study of a group of wild chimpanzees of the Tai forest in Cote D Ivoire spending some fifteen years in the West African jungle with them This fascinating book is the result of these years of painstaking research among the chimps Chimpanzee behavior is documented here in all its impressive diversity and variety Aggression territoriality social structure and relationships reproductive strategies hunting tool use each of these is given its own chapter along with topics such as chimp intelligence life histories and demography The authors take care to place their observations within the broader context of research in behavioral ecology and to compare and contrast their findings with other important work on chimpanzee groups such as that by Jane Goodall The book concludes with a summary chapter relating the chimpanzee findings to our understanding of human evolution Combining careful scientific observation with a store of entertaining anecdotes this is a lively and readable book It also succeeds in shedding light on some of the central questions around the evolutionary relationships between the primates and in particular the affinity between chimpanzees and humans This is a major contribution to the study of the great apes and a significant addition to debates about human ape evolution It has all the makings of a classic monograph

Popular Science ,1994-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

Reproductive and Developmental Toxicology Ramesh C. Gupta,2022-02-11 Selected for Doody s Core Titles 2024 in Toxicology Reproductive and Developmental Toxicology Third Edition is a comprehensive and authoritative resource providing the latest literature on this complex subject by focusing on three core components parent placenta and fetus and the continuous changes that occur in each Enriched with relevant references describing every aspect of reproductive toxicology this revised and updated resource addresses the totality of the subject discussing a broad range of topics including nanoparticles and radiation gases and solvents smoking alcohol and drugs of abuse and metals among others In addition it is the only resource to include reproductive and developmental toxicity in domestic animals fish and wildlife With a special focus on placental toxicity this book is the only available reference to connect the three key risk stages Completely revised and updated to include the most recent developments in the field this

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Mitochondrial Signaling in Health and Disease Sten Orrenius,Lester Packer,Enrique Cadenas,2012-06-20 Mitochondria have traditionally been associated with metabolic functions however recent research has uncovered a central role for these organelles in cell signaling cell survival and cell death Mitochondrial dysfunction is a factor in a myriad of pathophysiological conditions including age related neurodegenerative disorders cancer metabolic

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