

Name: \_\_\_\_\_

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## Nuclear Fission and Fusion

### *Learning Objectives*

- Compare and contrast nuclear fission and nuclear fusion.
- Understand the conservation laws that apply to nuclear reactions.

### *Vocabulary*

- Fission, fusion, transmutation and nuclide.

### *Why?*

Fission and fusion are two processes that alter the nucleus of an atom. Nuclear fission provides the energy in nuclear power plants and fusion is the source of the sun's energy. The use of fission in power plants can help conserve fossil fuels. Without the energy produced by the fusion of the hydrogen in the sun, the Earth would quickly change into a cold planet that could not support life as we know it.

### *Information*

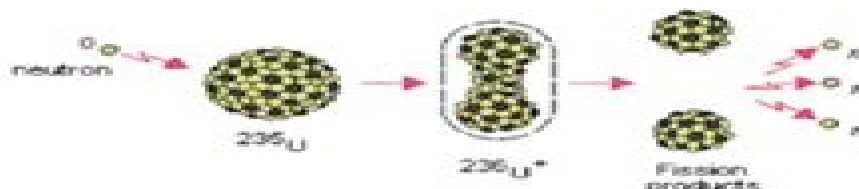
Transmutation is the transformation of the nucleus of an atom so that the atom is changed from one element into a different element. This can be accomplished through many types of reactions, including fission and fusion.

Nuclear transformations always obey two fundamental conservation laws: (1) mass number is conserved and (2) electrical charge is conserved. Energy and mass are not served, but can be inter-converted according to Einstein's equation,  $E=mc^2$ . The amount of binding energy released from the nucleus of an atom during fission and fusion is so tremendous that a small fraction of mass is converted to energy; this is referred to as the mass defect.

### *Model*

#### **1. Fission**

The process of fission occurs when a nucleus splits into smaller pieces. Fission can be induced by a nucleus capturing slow moving neutrons, which results in the nucleus becoming very unstable.



(<http://chemed.chem.purdue.edu/grochessa/topics/inner/typical2/fission.html>)

The following equations represent fission reactions, where n = neutron.



# Fission And Fusion Answers

**James Bobick, Naomi E. Balaban**



## **Fission And Fusion Answers:**

*SCIENCE FOR TENTH CLASS PART 1 PHYSICS* LAKHMIR SINGH, A series of six books for Classes IX and X according to the CBSE syllabus Each class divided into 3 parts Part 1 Physics Part 2 Chemistry Part 3 Biology Physics in Radiation Oncology Self-Assessment Guide Ping Xia, Andrew Godley, 2015-09-08 This guide companion to the Radiation Oncology Self Assessment Guide is a comprehensive physics review for anyone in the field of radiation oncology looking to enhance their knowledge of medical physics It covers in depth the principles of radiation physics as applied to radiation therapy along with their technical and clinical applications To foster retention of key concepts and data the resource utilizes a user friendly flash card question and answer format with over 800 questions The questions are supported by detailed answers and rationales along with reference citations for source information The Guide is comprised of 14 chapters that lead the reader through the radiation oncology physics field from basic physics to current practice and latest innovations Aspects of basic physics covered include fundamentals photon and particle interactions and dose measurement A section on current practice covers treatment planning safety regulations quality assurance and SBRT SRS TBI IMRT and IGRT techniques A chapter unique to this volume is dedicated to those topics in diagnostic imaging most relevant to radiology including MRI ultrasound fluoroscopy mammography PET SPECT and CT New technologies such as VMAT novel IGRT devices proton therapy and MRI guided therapy are also incorporated Focused and authoritative this must have review combines the expertise of clinical radiation oncology and radiation physics faculty from the Cleveland Clinic Taussig Cancer Institute Key Features Includes more than 800 questions with detailed answers and rationales A one stop guide for those studying the physics of radiation oncology including those wishing to reinforce their current knowledge of medical physics Delivered in a flash card format to facilitate recall of key concepts and data Presents a unique chapter on diagnostic imaging topics most relevant to radiation oncology Content provided by a vast array of contributors including physicists radiation oncology residents dosimetrists and physicians About the Editors Andrew Godley PhD is Staff Physicist Department of Radiation Oncology Taussig Cancer Institute Cleveland Clinic Cleveland OH Ping Xia PhD is Head of Medical Physics and Professor of Molecular Medicine Taussig Cancer Institute Cleveland Clinic Cleveland OH

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Balaban, 2019-08-01 Informative easy to use guide to everyday science questions concepts and fundamentals celebrates its twenty fifth year and over one million copies sold Science is everywhere and it affects everything DNA and CRISPR Artificial sweeteners Sea level changes caused by melting glaciers Gravitational waves Bees in a colony The human body Microplastics The largest active volcano Designer dog breeds Molecules The length of the Grand Canyon Viruses and retroviruses The weight of a cloud Forces motion energy and inertia It can often seem complex and complicated but it need not be so difficult to understand The thoroughly updated and completely revised fifth edition of *The Handy Science Answer Book* makes science and its impact on the world fun and easy to understand Clear concise and straightforward this informative primer covers hundreds of intriguing topics from the basics of math physics and chemistry to the discoveries being made about the human body stars outer space rivers mountains and our entire planet It covers plants animals computers planes trains and cars This friendly resource answers more than 1 600 of the most frequently asked most interesting and most unusual science questions including When was a symbol for the concept of zero first used How large is a google Why do golf balls have dimples What is a chemical bond What is a light year What was the grand finale of the Cassini mission How many exoplanets have been discovered Where is the deepest cave in the United States How long is the Grand Canyon What is the difference between weather and climate What causes a red tide What is cell cloning and how is it used in scientific research How did humans evolve Do pine trees keep their needles forever What is the most abundant group of organisms How do insects survive the winter in cold climates Which animals drink seawater Why do geese fly in formation What is FrogWatch Why do cats eyes shine in the dark Which industries release the most toxic chemicals What causes most wildfires in the United States Which woman received the Nobel Prize in two different fields two different years What is the difference between science and

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