

Experiment 3 - PhET Nuclear Fission Inquiry Lab

After using this simulation, you will be able to:

- Describe how a neutron can give energy to a nucleus and cause it to fission.
- Explain the byproducts of a fission event.
- Explain how a chain reaction works, and describe the requirements for a sustained chain reaction large enough to make a bomb.
- Explain how a nuclear reactor works and how control rods can be used to slow down the reaction.

Use the Nuclear Fission Inquiry Lab Nuclear Fission PhET simulation at <http://phet.colorado.edu/en/simulation/nuclear-fission> to answer the questions on this page

1. Use the tab called "Fission – One Nucleus" to answer these questions:

1. Try to figure out how you can make U-235 unstable
2. How do you know it's unstable?
3. Describe what you would do to make U-235 unstable, both in terms of what you see and do in the simulation and what this represents, physically.
4. In your own words, what does "unstable" mean when used to describe Uranium?

2. Imagine that you have many U-235 atoms and you fire a neutron at one of them. What do you think will happen? Explain your prediction using words and drawings.

3. Explore the features of the "Chain Reaction" tab. If you wanted to explain nuclear chain reactions to someone, what would you tell them? Briefly, explain your ideas using appropriate vocabulary and drawings. Make certain that your answer explains why the reaction occurs AND what affects the speed of the reaction.

4. Why is U-235 a good isotope of Uranium for creating chain reactions?

5. Now, you want to make an atom bomb. Use an Internet search to determine which materials are used for nuclear bombs, and use these materials to try to make your bomb. (Remember, a bomb must be transportable – what do you need to do so that it is transportable?) What can you do to make the bomb explode?

6. While using the simulation, what observations have you made that makes nuclear reactions good for bombs?

7. What are at least three things that you need in order to make an effective bomb, and why?

8. Explore the features of the "Nuclear Reactor" tab. What is the purpose of the control rods within a nuclear reactor?

Phet Nuclear Fission Inquiry Lab Answers

L Reisser



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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.

Nuclear Fission and Chain Reaction Pedro R. FlorCruz, 1950 The Discovery of Nuclear Fission Hans G. Graetzer, David L. Anderson, 1971

Nuclear Fission Robert Vandenberg, 2012-12-02 Nuclear Fission provides a comprehensive account of nuclear fission. This book is organized into 14 chapters. Chapter I introduces and discusses the discovery of fission, followed by a treatment of transition nucleus in Chapters II to VIII. Chapter IX deals with the theories of mass and energy distributions. The kinetic energy release in fission is described in Chapter X, while the distribution of mass and charge in fission is considered in Chapter XI. Chapters XII and XIII consider the emission of neutrons and rays from fission. Detailed studies of the particles accompanying fission are covered in the last chapter. This volume is intended for students but is also valuable to research scientists interested in the physics and chemistry of fission.

Nuclear Fission and Atomic Energy William Edwards Stephens, 1946

Nuclear Fission Patrick Talou, Ramona Vogt, 2024-01-16 This book provides advanced students and postdocs, as well as current practitioners of any field of nuclear physics, involving fission, an understanding of the nuclear fission process. Key topics covered are fission cross sections, fission fragment yields, neutron and gamma emission from fission, and key nuclear technologies and applications where fission plays an important role. It addresses both fundamental aspects of the fission process and fission-based technologies, including combining quantitative and microscopic modeling.

Nuclear Fission, 2010

Nuclear Fission and Atomic Energy William E. Stephens, 2008-11 NUCLEAR FISSION and ATOMIC ENERGY by WILLIAM E STEPHENS

Contents include: Foreword vii, Editors' Preface ix, Chapter 1: Discovery of Fission 1, 2: Production of Fission 6, 3: Fission Fragments 16, 4: Fission Products 22, 5: Secondary Neutrons 43, 6: Heavy Nuclei 50, 7: Theory of Fission 67, 8: Dynamics of Fission 92, 9: Early Work on Chain Reactions 117, 10: Slow Neutron Chain Reactions 133, 11: Fast Neutron Chain Reaction 171, 12: Separation of Isotopes 181, 13: Chemical Separation Methods: Isolation of Plutonium 222, 14: Potentialities of Fission Techniques 234, Bibliography 259, Author Index 281, Subject Index 287.

FOREWORD: FREE and unrestricted research in nuclear physics ceased abruptly in 1941. Activity in the field went underground, and certain aspects were the subject of intense study and investigation in secret under the forced draft of military urgency and unlimited support. It emerged on August 6, 1945, with the most destructive explosion that has ever been produced by man. The same dramatic event answered affirmatively the outstanding question which had engaged nuclear physicists previously: Is a self-sustaining nuclear chain

reaction possible The successful culmination of the work of the Manhattan District in the explosion of the bombs over Japan punctuated the end of the war and announced the scientific fact that nuclear chain reactions could be brought about With the cessation of hostilities nuclear physicists have returned from a wide variety of war research assignments to their chosen field The obvious first step in resuming programs of fundamental research has been a review of the literature and a taking of scientific stock in the light of available information At the University of Pennsylvania a series of seminars was conducted by Dr Stephens and the staff of the Department of Physics resident in the autumn of 1945 for the purpose of reviewing all freely available information and reorienting the interests of the research group The extensive examination of all the pertinent literature at their disposal and the careful study of its implications in the light of present common scientific knowledge has been of great value in the planning of a research program at the University of Pennsylvania It is in the hope that the efforts of this group may serve a much broader purpose in assisting their scientific colleagues elsewhere to resume their research programs or enable them to enter their field of fundamental investigation that these seminar notes have been edited for publication Unfortunately this book perforce marks a departure from traditional scientific publications a departure which it is hoped is only a temporary result of abnormal post war conditions The authors of this book in common with authors of reviews in other branches of physical science have dealt only with information that is available to all But unlike authors of pre war treatises they are aware that there exists a body of pertinent knowledge inaccessible to them To avoid any possible imputation of inadvertent breach of security they have been at pains not to discuss these topics with any persons in possession of classified knowledge concerning them Though a more complete book on the subject might be written by men who have participated in the atomic bomb project such persons are at present legally precluded from such an undertaking The very ignorance of the authors of this book thus enables them to contribute their special training to the writing of it as a contribution to the advancement of knowledge in the best scientific tradition

The Discovery of Nuclear Fission Hans G. Graetzer, 1971

The Nuclear Fission Process Cyriel Wagemans, 1991-09-20 This text provides a comprehensive review of knowledge regarding nuclear fission from both the purely scientific and practical points of view Topics discussed include fission barriers spontaneous fission neutron induced fission cross sections photon and electron induced fission charged particle induced fission fragment angular momentum and ternary fission The characteristics of other reaction products are also discussed Contributed articles from several distinguished nuclear scientists guarantee adequate treatment of some of the specialized research fields included in the text Intended primarily as an introduction to nuclear fission for graduate students this book will also provide useful information for nuclear physicists involved with research or teaching

The Discovery of Nuclear Fission Hans G. Graetzer, David L. Anderson, 1981-01-01

The Discovery of Nuclear Fission, 1971

Nuclear fission, 1986

The Liquid Drop Model for Nuclear Fission R. D. Present, Frederick Reines, J. K. Knipp, 1948

Fifty Years of Nuclear Fission, 1989 This report is the written version of a colloquium first presented at

Argonne National Laboratory in January 1989 The paper begins with an historical preamble about the events leading to the discovery of nuclear fission This leads naturally to an account of early results and understanding of the fission phenomena Some of the key concepts in the development of fission theory are then discussed The main theme of this discussion is the topography of the fission barrier in which the interplay of the liquid drop model and nucleon shell effects lead to a wide range of fascinating phenomena encompassing metastable isomers intermediate structure effects in fission cross sections and large changes in fission product properties It is shown how study of these changing effects and theoretical calculations of the potential energy of the deformed nucleus have led to broad qualitative understanding of the nature of the fission process 54 refs 35 figs

An Introduction to Nuclear Fission Walid Younes,Walter D. Loveland,2021-11-15 This hands on textbook introduces physics and nuclear engineering students to the experimental and theoretical aspects of fission physics for research and applications through worked examples and problem sets The study of nuclear fission is currently undergoing a renaissance Recent advances in the field create the opportunity to develop more reliable models of fission predictability and to supply measurements and data to critical applications including nuclear energy national security and counter proliferation and medical isotope production An Introduction to Nuclear Fission provides foundational knowledge for the next generation of researchers to contribute to nuclear fission physics

Dynamical Aspects of Nuclear Fission J. Kristiak,B. I. Pustylnik,1992-11-01 **Selected Papers on Nuclear Reactions.** ,1984 **25 Years of Nuclear Fission** United Kingdom Atomic Energy Authority,1966 **Statistical Theory of Nuclear Fission** Peter Fong,1969

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