Who Discovered Nuclear Fission

Hans G. Graetzer, David L. Anderson

The Discovery of Nuclear Fission Hans G. Graetzer, David L. Anderson, 1971

Otto Hahn and the Story of Nuclear Fission Jim Whiting,2003-12 Profiles German chemist Otto Hahn, whose research into radioactivity led to the discovery of nuclear fission and, despite his opposition, to the development of the atomic bomb.

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.

The Path to Nuclear Fission: The Story of Lise Meitner and Otto Hahn, The story of two close friends who discovered nuclear fission is told in great detail within the context of both World Wars. This video is as much about role of scientists in political events, social responsibility, and discrimination against women and Jews, as it is about the science, though the science is clearly explained. Archival film footage and photographs are extensively and effectively used throughout the production. Most fascinating are the contrasting life choices made by these two scientists. They were close collaborators and good friends during the first 20 years of their professional life. However, Lise Meitner, a physicist, faced early discrimination as a woman and later as a Jew. She was forced to flee Germany as the Nazis established their hold over the country in the 1930s. Though given the opportunity, she refused to participate in the U.S. Manhattan project to develop the atomic bomb. Otto Hahn, a chemist, ended up collaborating and being a key leader of the Nazi wartime atomic project. Though he secretly collaborated with Lise in exile, he refused to acknowledge her role in explaining nuclear fission, taking sole credit and ultimately the Nobel Prize for this discovery. Yet Lise actually coined the term "nuclear fission" and worked out the actual physics in the first published explanation of the phenomena.. The film honestly discusses the horrors of Nazism including the concentration camps, the tendency of scientists to care about science above all considerations, and the politics of science achievements and their recognition. It clearly demonstrates the irony of German scientists, many of whom were

philosophically opposed to Hitler, making serious moral compromises by directly assisting the Nazi war effort in order to continue their scientific research and keep their positions within their institutions. Hence, this video can be an excellent starting point for a wealth of historical, political, moral, civil rights, and social issues. This is a well-done, serious history and will be most appreciated by serious students. - Ben Wagner, University of Buffalo.

Nuclear Fission--reaction to the Discovery in 1939 Lawrence Badash, Elizabeth Hodes, Adolph Tiddens, 1985 Who Discovered What When Arron Wood, David Ellyard, 2005 You need no specialised knowledge of science to find interest and value in this unique book. The author's grasp of all spheres of science is so firm that he can explain complex ideas with startling clarity. Each chapter covers a half-century, and the pithy 200-300 word stories are arranged chronologically.

The Discovery of Nuclear Fission ,1971

Lise Meitner Rachel Barron,2000 A biography of the Austrian scientist whose discoveries in nuclear physics played a major part in developing atomic energy.

The Discovery of Nuclear Fission Hans G. Graetzer, 1971

The Woman Who Split the Atom Marissa Moss,2022-04-05 Bestselling author-illustrator Marissa Moss tells the gripping story of Lise Meitner, the physicist who discovered nuclear fission As a female Jewish physicist in Berlin during the early 20th century, Lise Meitner had to fight for an education, a job, and equal treatment in her field, like having her name listed on her own research papers. Meitner made groundbreaking strides in the study of radiation, but when Hitler came to power in Germany, she suddenly had to face not only sexism, but also life-threatening anti-Semitism as well. Nevertheless, she persevered and one day made a discovery that rocked the world: the splitting of the atom. While her male lab partner was awarded a Nobel Prize for the achievement, the committee refused to give her any credit. Suddenly, the race to build the atomic bomb was on—although Meitner was horrified to be associated with such a weapon. "A physicist who never lost her humanity," Meitner wanted only to figure out how the world works, and advocated for pacifism while others called for war. The book includes an afterword, author's note, timeline, select terms of physics, glossary of scientists mentioned, endnotes, select bibliography, index, and Marissa Moss's celebrated drawings throughout. The Woman Who Split the Atom is a fascinating look at Meitner's fierce passion, integrity, and her lifelong struggle to have her contributions to physics recognized.

Federal Research and Development Programs United States. Congress. House. Select Committee on Government Research,1964

Academic Physics X, 2008

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

Managing Science Frederick Betz, 2010-11-30 What is science? How is it performed? Is science only a method or is it also an institution? These are questions at the core of Managing Science, a handbook on how scientific research is conducted and its results disseminated. Knowledge creation occurs through scientific research in universities, industrial laboratories, and government agencies. Any knowledge management system needs to promote effective research processes to foster innovation, and, ultimately, to channel that innovation into economic competitiveness and wealth. However, science is a complicated topic. It includes both methodological aspects and organizational aspects, which have traditionally been discussed in isolation from each other. In Managing Science, Frederick Betz presents a holistic approach to science, incorporating both philosophical and practical elements, in a framework that integrates scientific method, content, administration and application. Illustrating all of the key concepts with illustrative case studies (both historical and contemporary, and from a wide spectrum of fields), Betz provides in-depth discussion of the process of science. He addresses the social, organizational, institutional, and infrastructural context through which research projects are designed and their results applied, along the path from experimentation to innovation to commercialization of new products, services, and processes. This practical approach to science is the foundation of today's knowledge-intensive and technology-enabled industries, and positions the management of science within the broader context of knowledge management and its implications for organizations, industries, and regional and national technology management policies. Managing Science will be an essential resource for students in all areas of research, industry scientists and R&D specialists, policymakers and university administrators, and anyone concerned with the application of research to economic growth and development.

Lise Meitner and the discovery of nuclear fission Ruth Lewin Sime, 1998

Lise Meitner and the Dawn of the Nuclear Age Patricia Rife,1999-05-10 In this fascinating biography, Patricia Rife interprets both the life and times of Lise Meitner (1878–1968), providing a rich background of the scientific discoveries and social milieu that affected the research, events, personalities, and politics of 20th century quantum physics. Rife asks the central question of why, given the priority evidence of Meitner's role in the interpretation of nuclear fission, was she too not awarded the Nobel Prize?

Hearings United States. Congress. House. Select Committee on Government Research, 1964

The Collected Works of Eugene Paul Wigner: Historical and biographical reflections and syntheses Eugene Paul Wigner, 1992

The Biological Bulletin Frank Rattray Lillie, Carl Richard Moore, Alfred Clarence Redfield, 1915

Splitting the Atom Alan Morton,2008 Splitting the Atom investigates the theories and practical developments that led to the turning-point in nuclear science -the realisation that splitting the nucleus of an atom created energy that could be harnessed, for good and for ill.

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