

The phenomenon of radioactivity relates to our story about the age of the Earth in two ways:

(1) As radioactive elements decay in the Earth, they heat up the surrounding rocks.

(2) Radiometric Dating

Story Of Radioactivity

Colin Ashley Mawson



Story Of Radioactivity:

Radioactivity Marjorie C. Malley, 2011-08-25 This is the story of a new science Beginning with an obscure discovery in 1896 radioactivity led researchers on a quest for understanding that ultimately confronted the intersection of knowledge and mystery Mysterious from the start radioactivity attracted researchers who struggled to understand it What caused certain atoms to give off invisible penetrating rays Where did the energy come from These questions became increasingly pressing when researchers realized the process seemed to continue indefinitely producing huge quantities of energy Investigators found cases where radioactivity did change forcing them to the startling conclusion that radioactive bodies were transmuting into other substances Chemical elements were not immutable after all Radioactivity produced traces of matter so minuscule and evanescent that researchers had to devise new techniques and instruments to investigate them Scientists in many countries but especially in laboratories in Paris Manchester and Vienna unraveled the details of radioactive transformations They created a new science with specialized techniques instruments journals and international conferences Women entered the field in unprecedented numbers Experiments led to revolutionary ideas about the atom and speculations about atomic energy The excitement spilled over to the public who expected marvels and miracles from radium a scarce element discovered solely by its radioactivity The new phenomenon enkindled the imagination and awakened ancient themes of literature and myth Entrepreneurs created new industries and physicians devised novel treatments for cancer Radioactivity gave archaeologists methods for dating artifacts and meteorologists a new explanation for the air's conductivity Their explorations revealed a mysterious radiation from space Radioactivity profoundly changed science politics and culture The field produced numerous Nobel Prize winners yet radioactivity's talented researchers could not solve the mysteries underlying the new phenomenon That was left to a new generation and a new way of thinking about reality Radioactivity presents this fascinating history in a way that is both accessible and appealing to the general reader Not merely a historical account the book examines philosophical issues connected with radioactivity and relates its topics to broader issues regarding the nature of science

Radioactive Substances Marie Curie, 2002 Pioneering scientist and winner of two Nobel Prizes Marie Curie describes in this interesting firsthand account the painstaking laboratory research that led to her discovery of radium and other radioactive substances This groundbreaking work in the area of natural radioactivity done in partnership with her husband Pierre Curie proved to be an important milestone in understanding the structure of matter Born Marie Sklodowska in Warsaw Poland she emigrated to Paris at the age of twenty four and enrolled in the Sorbonne after being refused admission by the University of Warsaw because she was a woman In France she met her husband a fellow scientist and together they conducted the laboratory investigations on radioactive substances that would later make them famous 1903 was a banner year for both of them Based on her work with radium she earned a doctorate of science and their joint research was awarded the Davy Medal from the Royal Society Then in the same year Marie and Pierre along with Henri

Becquerel shared the Nobel Prize for Physics for the discovery of radioactivity. When Pierre died tragically in 1906 from an automobile accident, Marie was appointed by the Sorbonne to fill his professorship and thus she became the first female member of the faculty in the 650 year history of the university. Despite the great loss of her husband and the burden of having to raise two daughters alone, Marie carried on the work that she and Pierre had begun. In 1910 her fundamental treatise on radioactivity was published and in 1911 she was awarded the Nobel Prize for Chemistry for the isolation of pure radium. Unfortunately, her many years of close work with radioactive substances eventually had deleterious health consequences and finally in 1934 she died of leukemia. This story of her work told in her own words reveals a courageous and dedicated scientist who gave everything for the advance of science.

Invisible Rays George Ingham Brown, 2002 Through biographies of pioneers including Marie Curie, this book investigates the history behind the discovery of radioactivity, its major benefits, drawbacks, and problems along the way.

The Story of Radioactivity Ann Stepp, 1971 A study of the use and misuses of nuclear energy contrasting its peaceful application with its devastating wartime power.

Radioactivity Michael F. L'Annunziata, 2016-05-13 A recipient of the PROSE 2017 Honorable Mention in Chemistry Physics Radioactivity Introduction and History From the Quantum to Quarks Second Edition provides a greatly expanded overview of radioactivity from natural and artificial sources on earth, radiation of cosmic origins, and an introduction to the atom and its nucleus. The book also includes historical accounts of the lives, works, and major achievements of many famous pioneers and Nobel Laureates from 1895 to the present. These leaders in the field have contributed to our knowledge of the science of the atom, its nucleus, nuclear decay, and subatomic particles that are part of our current knowledge of the structure of matter, including the role of quarks, leptons, and the bosons force carriers. Users will find a completely revised and greatly expanded text that includes all new material that further describes the significant historical events on the topic dating from the 1950s to the present. Provides a detailed account of nuclear radiation, its origin and properties, the atom, its nucleus, and subatomic particles including quarks, leptons, and force carriers, bosons. Includes fascinating biographies of the pioneers in the field, including captivating anecdotes and insights. Presents meticulous accounts of experiments and calculations used by pioneers to confirm their findings.

The Story of Radioactivity Colin Ashley Mawson, 1969 The history, uses, and future possibilities of radioactivity, describing how nuclear reactions are produced and how energy is generated from these reactions.

Radioactivity: Introduction and History Michael F. L'Annunziata, 2007-08-23 Radioactivity Introduction and History provides an introduction to radioactivity from natural and artificial sources on earth and radiation of cosmic origins. This book answers many questions for the student, teacher, and practitioner as to the origins, properties, detection, and measurement and applications of radioactivity. Written at a level that most students and teachers can appreciate, it includes many calculations that students and teachers may use in class work. Radioactivity Introduction and History also serves as a refresher for experienced practitioners who use radioactive sources in their field of work. Also included are historical accounts of the

lives and major achievements of many famous pioneers and Nobel Laureates who have contributed to our knowledge of the science of radioactivity Provides entry level overview of every form of radioactivity including natural and artificial sources and radiation of cosmic origin Includes many solved problems to practical questions concerning nuclear radiation and its interaction with matter Historical accounts of the major achievements of pioneers and Nobel Laureates who have contributed to our current knowledge of radioactivity

Marie Curie and Radioactivity Connie Colwell Miller,2006-07 In graphic novel format tells the story of Marie Curie s discovery of radium and radioactivity Provided by publisher *Story of the World, Vol. 4: History for the Classical Child: The Modern Age (Vol. 4) (Story of the World)* Susan Wise Bauer,2005-06-17

This fourth book in the four volume narrative history series for elementary students will transform your study of history The Story of the World has won awards from numerous homeschooling magazines and readers polls over 150 000 copies of the series in print Where was the Crystal Palace Who was the Sick Man of Europe And how did cow fat start a revolution Now more than ever other countries and customs affect our everyday lives and our children need to learn about the people who live all around the world Susan Wise Bauer has provided a captivating guide to the history of modern nations all around the world Written in an engaging straightforward manner the final volume of the popular Story of the World series weaves world history into a storybook format covering major historical events in the years 1850 2000 From the Middle East and China to Africa and the Americas find out what happened all around the world in the last century and a half Designed as a read aloud project for parents and children to share together The Story of the World includes the stories of each continent and people group Each Story of the World volume provides a full year of history study when combined with the Activity Book Audiobook and Tests each available separately to accompany each volume of The Story of the World Text Book Volume 4 Grade

Recommendation Grades 3 8 Half Lives Lucy Jane Santos,2021-07-06 The fascinating curious and sometimes macabre history of radium as seen in its uses in everyday life Of all the radioactive elements discovered at the end of the nineteenth century it was radium that became the focus of both public fascination and entrepreneurial zeal Half Lives tells the fascinating curious sometimes macabre story of the element through its ascendance as a desirable item a present for a queen a prize in a treasure hunt a glow in the dark dance costume to its role as a supposed cure all in everyday twentieth century life when medical practitioners and business people reputable and otherwise devised ingenious ways of commodifying the new wonder element and enthusiastic customers welcomed their radioactive wares into their homes Lucy Jane Santos herself the proud owner of a formidable collection of radium beauty treatments delves into the stories of these products and details the gradual downfall and discredit of the radium industry through the eyes of the people who bought sold and eventually came to fear the once fetishized substance Half Lives is a new history of radium as part of a unique examination of the interplay between science and popular culture

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