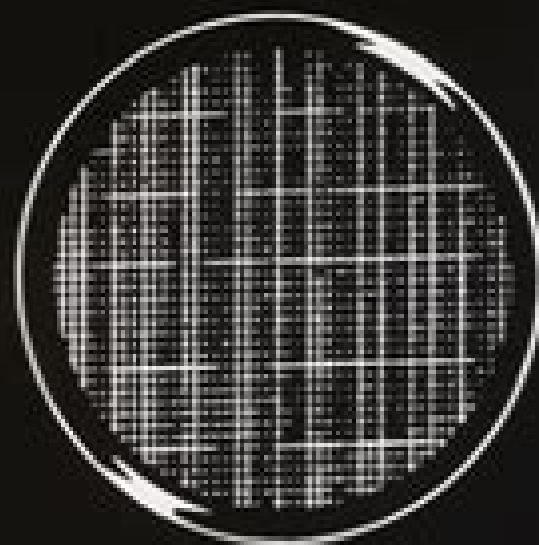


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R A D I O - A C T I V I T Y



RADIO-ACTIVITY



# Radio Activity

**Rutherford Ernest**





## Radio Activity:

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Radioactivity Michael Wiescher,2025-01-16 This book provides an accessible introduction to radioactivity The second in a two volume set this volume is presented in two parts covering its development and modern applications It first explores the development and applications of technically enhanced natural radioactivity TENR and addresses nuclear energy sources the fission and fusion processes and the issues of radioactive fallout from nuclear weapon use and test programs Later chapters explore the cutting edge medical applications of radioactive materials in diagnostics and therapy exploring nuclear medicine technologies such as x ray tomography brachytherapy and positron emission tomography PET They also detail the broad range of applications of radioactive materials in industrial production processes in the sterilization of tools and materials in the medical and the food industries and in the analysis of art and archaeological material to analyse paintings and painting techniques to identify fakes and forgeries The book concludes with a discussion of the societal impact and understanding of radioactivity alongside detailing the underlying reasons for its negative preconceptions and the possible mitigation of these through better education and information practices This book will be of interest to non science undergraduate and physics graduate students alike as well as to interested lay people looking for an introduction to radioactivity Key Features Written in an accessible style to be understood by readers without a formal scientific education Highly illustrated throughout Authored by an expert in the field drawing from decades of experience in experimental nuclear physics      **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

**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      **Radio-Active Substances** Marie Curie,2020-01-02 The object of the present work is the publication of researches which I have been carrying on for more than four years on radio active bodies I began these researches by a study of the phosphorescence of uranium discovered by M Becquerel The results to which I was led by this work promised to afford so interesting a field that Pierre Curie put aside the work on which he was engaged and joined me our object being the extraction of new radio active substances and the further study of their properties      **Radio-activity** Charles Ross Stevens,1904      **Handbook of Radioactivity Analysis** Michael F. L'Annunziata,2012-08-16 Authoritative reference providing the principles practical techniques and procedures for the accurate measurement of radioactivity

**Radio-activity** Ernest Rutherford,2007-05-01 Ernest Rutherford s remarkable first book which contained a thorough survey of all knowledge of radioactivity at the time a subject for which he went on to win the 1908 Nobel Prize in Chemistry

**Radio-active Substances** Marie Curie,1904      Airborne Measurements of Terrestrial Radioactivity as an Aid to Geologic Mapping James A. Pitkin,1968      Subsurface Measurements of Natural Gamma Radioactivity, Nevada Test Site and Vicinity, Nye, Lincoln, and Clark Counties, Nevada Carl Maurice Bunker,1965      *Science Abstracts* ,1914      Study of Radioactivity in Modern Stream Gravels as a Method of Prospecting Randall T. Chew,1956      Reconnaissance for Radioactivity in the Metal-mining Districts of the San Juan Mountains, Colorado Charles Thomas Pierson,Edwin Robert Landis,Harry Clifford Granger,J. H. Stewart,James G. Stephens,Roy Clark Kepferle,Tom Gray Lovering,Ernest Pete Beroni,George A Williams,Marion Joseph Bergin,Robert Bruce Raup,W. F. Weeks,Frank Joseph Kleinhampl,Howard Franklin Albee,Omer B. Raup,Robert Allen Cadigan,1958 This report concerns work done on behalf of the U S Atomic Energy Commission and is published with the permission of the Commission      **The Electrical Nature of Matter and Radioactivity** Harry Clary Jones,1915      **Harper's Monthly Magazine** ,1903      *Chemical News and Journal of Industrial Science* ,1905



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