

Rutherford

SIMPLE GENIUS



DAVID WILSON

Rutherford Simple Genius

Melinda Baldwin



Rutherford Simple Genius:

Rutherford David Wilson,1983 *Leven en werk van de Engelse natuurkundige Ernest Rutherford 1871 1937* **A Force of Nature: The Frontier Genius of Ernest Rutherford** Richard Reeves,2008-12-17 In this new intellectual biography of Ernest Rutherford the 20th centurys greatest experimental physicist Reeves portrays a ruddy genial man who was also a towering figure in scientific history **Making "Nature"** Melinda Baldwin,2015-08-18 Making Nature is the first book to chronicle the foundation and development of Nature one of the world s most influential scientific institutions Now nearing its hundred and fiftieth year of publication Nature is the international benchmark for scientific publication Its contributors include Charles Darwin Ernest Rutherford and Stephen Hawking and it has published many of the most important discoveries in the history of science including articles on the structure of DNA the discovery of the neutron the first cloning of a mammal and the human genome But how did Nature become such an essential institution In Making Nature Melinda Baldwin charts the rich history of this extraordinary publication from its foundation in 1869 to current debates about online publishing and open access This pioneering study not only tells Nature s story but also sheds light on much larger questions about the history of science publishing changes in scientific communication and shifting notions of scientific community Nature as Baldwin demonstrates helped define what science is and what it means to be a scientist *Sonar to Quartz Clock* Shaul Katzir,2023-08-23 Sonar to Quartz Clock examines how the unapplied phenomenon of piezoelectricity became applied for technologies such as sonar crystal frequency control the quartz clock and how its research has consequently changed during WWI and the interwar period It aims at reconstructing for the first time the fascinating history of the inventions and the development of these highly important technologies which are still in extensive use and which were crucial for the electronic revolution arguably the most important technological developments of the twentieth century On this basis this book suggests a better and more nuanced understanding of the relationships between modern science and technology and the process of development and innovation of science based technologies It examines in particular the mutual transfer and transformation of knowledge between them including the way physics becomes practically applicable the way applications and societal interests shape technology and science and the differences and similarities between scientific and technological research The book presents an in depth analysis of the scientific and technological research and development in the field and of the evolution of their experimental theoretical and technical aspects within their social military and commercial contexts It offers an integrative history of science and technology needed to better comprehend their interactions and evolution but rare in current historiography This book will appeal to historians of science and technology sociologists of science and generally scientists and engineers studying or working with piezoelectricity ultrasound devices and crystal frequency control *Measuring Eternity* Martin Gorst,2002-03-26 The untold story of the religious figures philosophers astronomers geologists physicists and mathematicians who for more than four hundred years have pursued the answer to a fundamental

question at the intersection of science and religion When did the universe begin The moment of the universe's conception is one of science's Holy Grails investigated by some of the most brilliant and inquisitive minds across the ages Few were more committed than Bishop James Ussher who lost his sight during the fifty years it took him to compose his Annals of all known history now famous only for one date 4004 b c Ussher's date for the creation of the world was spectacularly inaccurate but that didn't stop it from being so widely accepted that it was printed in early twentieth century Bibles As writer and documentary filmmaker Martin Gorst vividly illustrates in this captivating character driven narrative theology let Ussher down just as it had thwarted Theophilus of Antioch and many before him Geology was next to fail the test of time In the eighteenth century naturalist Comte de Buffon working out the rate at which the earth was supposed to have cooled came up with an age of 74 832 years even though he suspected this was far too low Biology then had a go in the hands of fossil hunter Johann Scheuchzer who alleged to have found a specimen of a man drowned at the time of Noah's flood Regrettably it was only the imprint of a large salamander And so science inched forward via Darwinism thermodynamics radioactivity and most recently the astronomers at the controls of the Hubble space telescope who put the beginning of time at 13.4 billion years ago give or take a billion Taking the reader into the laboratories and salons of scholars and scientists visionaries and eccentrics Measuring Eternity is an engagingly written account of an epic often quixotic quest of how individuals who dedicated their lives to solving an enduring mystery advanced our knowledge of the universe

The Second Creation

Robert P. Crease, Charles C. Mann, 1996 The Second Creation is a dramatic and human chronicle of scientific investigators at the last frontier of knowledge Robert Crease and Charles Mann take the reader on a fascinating journey in search of unification with brilliant scientists such as Niels Bohr Max Planck Albert Einstein Erwin Schrödinger Richard Feynman Murray Gell-Mann Sheldon Glashow Steven Weinberg and many others They provide the definitive and highly entertaining story of the development of modern physics and the human story of the physicists who set out to find the theory of everything

Nobel Laureates in Chemistry, 1901-1992 James K. Laylin, 1993-10-30 Through new perspectives from a mix of original monographs biographies autobiographical memoirs edited collections of essays and documentary sources translations classic reprints and pictorial volumes this series will document the individuals ideas institutions and innovations that have created the modern chemical sciences

Environmental Radon C. Richard Cothorn, James E. Smith Jr., 2013-11-21 This volume is intended for the professional who is a newcomer to the area of environmental radon It marks the first time that chapters on these subjects have been brought together in a single volume and it is arranged so that anyone with some basic university level chemistry and physics can develop a clear understanding of the different aspects involved The volume is intended to serve as a supplementary textbook in public health environmental and health physics courses It also can be used by the professional to get up to speed in this rapidly evolving field The chapters are not necessarily a discussion of the latest research in this fast moving field but are intended to bring the reader to a level at which he can easily understand the

current literature At the back of this volume the reader will find the references for the individual chapters a general list of reading materials a glossary an appendix describing the equations for radioactive decay for a series of progeny a table of often used conversion factors and the addresses and brief biographies of the authors and editors Both historical and SI International System units are used throughout the book to provide information for the widest range of readers Thanks go to Tom Hess for the idea for this volume and to Jessica Barron for help in editing **Sir William C. Macdonald** William Fong,2007-08-24 Sir William Macdonald 1831 1917 is the father of the Canadian tobacco industry and one of the country s foremost educational philanthropists His contributions to McGill University transformed it into one of the world s foremost research and teaching institutions William Fong s biography places Macdonald s life in its historical context painting a vivid portrait of Victorian Canada Reader's Guide to the History of Science Arne Hessenbruch,2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

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