

The Self-Splitting Atom

A History of the Rutherford-Soddy Collaboration

TJ Trenn

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Spencer R. WEART, Spencer R Weart



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The Self-splitting Atom. The History of the Rutherford-Soddy Collaboration Thaddeus J. Trenn, 1977

Frederick Soddy (1877-1956) George B. Kauffman, 2012-12-06 On August 18 1977 a special Soddy Session was held at the Fifteenth International Congress of the History of Science Edinburgh Scotland with Dr Thaddeus J Trenn as Symposium Chairman This session was organized to commemorate the 100th anniversary of the birth of Frederick Soddy born September 2 1877 Eastbourne England died September 22 1956 Brighton England who was awarded the 1921 Nobel Prize in Chemistry for his contributions to our knowledge of the chemistry of radioactive substances and his investigations into the origin and nature of isotopes Soddy taught and or carried out research at Oxford University where he was Lee's Professor of Chemistry McGill University where he and Sir Ernest Rutherford proposed the disintegration theory of radioactivity University College London where he and Sir William Ramsay demonstrated natural transmutation Glasgow University where he formulated his displacement law and concept of isotopes and Aberdeen University In addition to his contributions to radiochemistry he proposed a number of controversial economic social and political theories The present volume contains the eight lectures presented at the symposium two additional papers written especially for this volume Kauffman Chapter 4 and Krivomazov Chapter 6 a paper on Soddy's economic thought Daly Chapter 11 and three selections from Soddy's works Furthermore an introductory account of Soddy's life and work by Thaddeus J Trenn as well as a Soddy chronology and name and subject indexes compiled by the editor are provided

The Origin of the Concept of Nuclear Forces L.M Brown, H Rechenberg, 1996-01-01 The concept of fundamental nuclear forces emerged gradually during the start of the 1930s and reached our present level of description some time before the 1950s The Origin of the Concept of Nuclear Forces presents a unified comprehensive account of the history of this important part of the modern scientific worldview In addition the authors foremost experts in the field examine the sociological and philosophical aspects of the story in light of the various theories of scientific development The book contains analyses of published work archival materials and original interviews It will be appealing primarily to historians of science and physicists interested in the roots of their field

The Beginnings of the Nobel Institution Elisabeth T. Crawford, 1984 The Nobel Prizes have long been the most prestigious awards in the world of science Established according to the wishes expressed in the will of Alfred Nobel 1895 the annual awards began in 1901 The Nobel Archives preserve the detailed study of the inner workings of the prize committees and the archival documents available for historical research since 1974 open the door to important new scholarship in the history and sociology of the prizes Elisabeth Crawford was one of the first to gain access to the Nobel Archives at the Royal Swedish Academy of Sciences and in this book she analyzes the early history of the prizes in physics and chemistry Crawford sets out in detail the story of the intricate inner workings of the process whereby the prizewinners were selected A fascinating picture of the contemporary international scientific establishment emerges one shedding light on how the developing Nobel institution

became enmeshed in speciality and other networks notably those of Arrhenius and Mittag Leffler the two Swedish scientists who were best known internationally at the time While the general development of disciplines and the standing of scientists in international and national communities heavily influenced the selection process the cases presented in this book show that the specific choices of specialities discoveries and people to be honored were determined by the Swedish participants in the process The question of how after some initial uncertainties the Nobel Prizes became synonymous with the highest achievements in science and culture is also addressed This detailed study of the birth of what have become science s highest accolades will interest historians and scientists alike

Controversy and Consensus: Nuclear Beta Decay 1911-1934

Carsten Jensen,2012-12-06 To all four of us Carsten was the best possible friend and colleague To Finn he was a fellow student in the history of science for several years at the Niels Bohr Institute to Relge he was a welcome resource for personal and intellectual interaction in an otherwise less than fertile environment for the history of science Roger was Carsten s friend and advisor not least in the development of the dissertation on which the present book is based and as director of the Niels Bohr Archive Erik was his main advisor in his historical work Because he was the person closest to Carsten s work on his Ph D dissertation on the history of beta decay on which the present book is based it is only fitting that Erik stands as single author of the words in Carsten s memory at the very beginning of this book Before his untimely death shortly after the completion of the Ph D dissertation Carsten had himself plans to develop the dissertation into a book Being a true perfectionist he wanted to rework the manuscript substantively especially with regard to relating it to the broader discussion among historians of science

Radioactivity - Two-Volume Set Michael Wiescher,2025-02-28 The first volume is presented in two parts covering radiation physics and natural radiation exposure It first explores the discovery and physics of the phenomenon of radioactivity covering the discovery of radioactive decay and the historical development of the physics and applications of radioactivity through to 1940 Chapters then present descriptive summaries of the physics of the atom and the atomic nucleus mass and energy conditions the nature of isotopes and the different decay patterns Chapter three discusses decay laws and introduces natural origins of radioactivity as well as methods for producing radioactive isotopes through nuclear reaction processes in reactor and accelerator The book then provides an introduction on dosimetry radiation chemistry and impact of radiation on biological systems The second half of the book details natural radioactivity and the role of radioactivity in the formation of the planetary system and our Earth The author describes how the inner radioactivity of our planet determines its dynamics and how it could have contributed to the origins of life The volume concludes with an exploration of the external and internal radioactivity to which humans are exposed and their possible side effects The second 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 These books will be of interest to non science undergraduates and nuclear astrophysics physics graduate students looking for an introduction to radioactivity in addition to interested laypeople 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 **Yearbook of**

Morphology 2004 Geert E. Booij, Jaap van Marle, 2004-11-30 A revival of interest in morphology has occurred during recent years The Yearbook of Morphology published since 1988 has proven to be an eminent support for this upswing of morphological research since it contains articles on topics which are central in the current theoretical debates which are frequently referred to In the Yearbook of Morphology 2004 a number of papers is devoted to the topic morphology and linguistic typology These papers were presented at the Fourth Mediterranean Morphology Meeting in Catania in September 2003 Within the context of this denominator a number of issues are discussed which bear upon universals and typology These issues include universals and diachrony sign language syncretism periphrasis etc **American Journal of Physics**, 1978

Scientific Controversies H. Tristram Engelhardt, Jr., Arthur L. Caplan, 1987-04-24 This collection of essays examines the ways in which disputes and controversies about the application of scientific knowledge are resolved Four concrete examples of public controversy are considered in detail the efficacy of Laetrile the classification of homosexuality as a disease the setting of safety standards in the workplace and the utility of nuclear energy as a source of power The essays in this volume show that debates about these cases are not confined to matters of empirical fact Rather as is seen with most scientific and technical controversies they focus on and are structured by complex ethical economic and political interests Drs Engelhardt and Caplan have brought together a distinguished group of scholars from the sciences and humanities who sketch a theory of scientific controversy and attempt to provide recommendations about the ways in which both scientists and the public ought to seek more informed resolutions of highly contentious issues in science and technology Scientific Controversies is offered as a contribution to the better understanding of the roles of both science and nonscientific interests in disputes and controversies pertaining to science and technology The Evolution of Technology George Basalla, 1989-02-24 This book presents an evolutionary theory of technological change based upon recent scholarship in the history of technology and upon relevant material drawn from economic history and anthropology It challenges the popular notion that technology advances

by the efforts of a few heroic individuals who produce a series of revolutionary inventions owing little or nothing to the technological past. Therefore the book's argument is shaped by analogies taken selectively from the theory of organic evolution and not from the theory and practice of political revolution. Three themes appear and reappear with variations throughout the study. The first is diversity, an acknowledgment of the vast numbers of different kinds of made things, artifacts that have long been available to humanity. The second is necessity, the belief that humans are driven to invent new artifacts in order to meet basic biological requirements such as food, shelter, and defense, and the third is technological evolution, an organic analogy that explains both the emergence of novel artifacts and their subsequent selection by society for incorporation into its material life without invoking either biological necessity or technological progress. Although the book is not intended to provide a strict chronological account of the development of technology, historical examples including many of the major achievements of Western technology—the waterwheel, the printing press, the steam engine, automobiles, and trucks—and the transistor are used extensively to support its theoretical framework. The *Evolution of Technology* will be of interest to all readers seeking to learn how and why technology changes, including both students and specialists in the history of technology and science.

Lost Knowledge Benjamin B. Olshin, 2019-02-19 *Lost Knowledge: The Concept of Vanished Technologies and Other Human Histories* examines the idea of lost knowledge reaching back to a period between myth and history. It investigates a peculiar idea found in a number of early texts that there were civilizations with knowledge of sophisticated technologies and that this knowledge was obscured or destroyed over time along with the civilization that had created it. This book presents critical studies of a series of early Chinese, South Asian, and other texts that look at the idea of specific lost technologies such as mechanical flight and the transmission of images. There is also an examination of why concepts of a vanished golden age were prevalent in so many cultures. Offering an engaging and investigative look at the propagation of history and myth in technology and culture, this book is sure to interest historians and readers from many backgrounds.

Constructing Quarks Andrew Pickering, 1999-12 Widely regarded as a classic in its field, *Constructing Quarks* recounts the history of the post-war conceptual development of elementary particle physics. Inviting a reappraisal of the status of scientific knowledge, Andrew Pickering suggests that scientists are not mere passive observers and reporters of nature. Rather, they are social beings as well as active constructors of natural phenomena who engage in both experimental and theoretical practice. A prodigious piece of scholarship that I can heartily recommend.

Michael Riordan, *New Scientist*. An admirable history. Detailed and so accurate.

Hugh N. Pendleton, *Physics Today*.

Physics and the Rise of Scientific Research in Canada Yves Gingras, 1991-03-01 The teaching of engineering and a change in liberal arts curricula, both stimulated by industrial growth, encouraged the creation of specialized courses in the sciences. By the 1890s, Gingras argues, trained researchers had begun to appear in Canadian universities. The technological demands of the First World War and the founding in 1916 of the National Research Council of Canada (NRC) accelerated the growth of scientific research. The

Transactions of the Royal Society of Canada could no longer publish everything submitted to it because of the disproportionately large number of research papers from the fields of science. In response the NRC created the Canadian Journal of Research a journal specifically dedicated to the publication of scientific research. By 1930 a stable national system of scientific research was in place in Canada. Following the dramatic increase in the national importance of their disciplines scientists faced the problem of social identity. Gingras demonstrates that in the case of physics this took the form of a conflict between those who promoted a professional orientation necessary to compete successfully with engineers in the labour market and those mainly in the universities who were concerned with problems of the discipline such as publication, internal management and awards. *Physics and the Rise of Scientific Research in Canada* is the first book to provide a general analysis of the origins of scientific research in Canadian universities. Gingras proposes a sociological model of the formation of scientific disciplines distinguishing the profession from the discipline, two notions often confused by historians and sociologists of science. *William and Lawrence Bragg, Father and Son* John Jenkin, 2011-04-07 In 1912 Lawrence Bragg explained the interaction of X rays with crystals and he and his father William thereby pioneered X ray spectroscopy and X ray crystallography. They then led the latter field internationally for fifty years when most areas of science were transformed by the knowledge they created: physics, chemistry, geology, materials science, electronics and most recently biology and medical science. This book charts how this humble pair, William English and his son Australian, rose from obscurity to international prominence and then back to current undeserved obscurity. Attention is also given to the crucial roles of both father and son during the dreadful years of the First World War and to William's early and unshakeable belief in the dual wave and particle natures of radiation and his eventual vindication. Unlike earlier studies the book highlights the intimate interactions between father and son that made their project possible, emphasizes personal family and wider human relationships and offers new insights into teaching and research in a British colonial setting. **The Problem of Disenchantment** Egil

Asprem, 2018-05-31 Challenges the conventional view of a disenchanted and secular modernity and recovers the complex relation that exists between science, religion and esotericism in the modern world. Max Weber famously characterized the ongoing process of intellectualization and rationalization that separates the natural world from the divine by excluding magic and value from the realm of science and reason and fact from the realm of religion as the disenchantment of the world. Egil Asprem argues for a conceptual shift in how we view this key narrative of modernity. Instead of a sociohistorical process of disenchantment that produces increasingly rational minds, Asprem maintains that the continued presence of magic and enchantment in people's everyday experience of the world created an intellectual problem for those few who were socialized to believe that nature should contain no such incalculable mysteries. Drawing on a wide range of early twentieth century primary sources from theoretical physics, occultism, embryology, radioactivity, psychical research and other fields, Asprem casts the intellectual life of high modernity as a synchronic struggle across conspicuously different fields that shared

surprisingly similar intellectual problems about value meaning and the limits of knowledge The Problem of Disenchantment is in its entirety extraordinarily well researched argued and written representing at once the most complete and nuanced treatment of the notion of disenchantment within this network of scientific religious philosophical and esoteric discourses and currents Nova Religio

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

Pursuing the Unity of Science Harmke Kamminga, Geert Somsen, 2016-05-20 From 1918 to the late 1940s a host of influential scientists and intellectuals in Europe and North America were engaged in a number of far reaching unity of science projects In this period of deep social and political divisions scientists collaborated to unify sciences across disciplinary boundaries and to set up the international scientific community as a model for global political co operation They strove to align scientific and social objectives through rational planning and to promote unified science as the driving force of human civilization and progress This volume explores the unity of science movement providing a synthetic view of its pursuits and placing it in its historical context as a scientific and political force Through a coherent set of original case studies looking at the significance of various projects and strategies of unification the book highlights the great variety of manifestations of this endeavour These range from unifying nuclear physics to the evolutionary synthesis and from the democratization of scientific planning to the utopianism of H G Wells's world state At the same time the collection brings out the substantive links between these different pursuits especially in the form of interconnected networks of unification and the alignment of objectives among them Notably it shows that opposition to fascism using the instrument of unified science became the most urgent common goal in the 1930s and 1940s In addressing these issues the book makes visible important historical developments showing how scientists participated in and actively helped to create an interwar ideology of unification and bringing to light the cultural and political significance of this enterprise

Brazilian Studies in Philosophy and History of Science Décio Krause, Antonio Videira, 2011-01-27 This volume The Brazilian Studies in the Philosophy and History of Science is the first attempt to present to a general audience works from Brazil on this subject The included papers are original covering a remarkable number of relevant topics of philosophy of science logic and on the history of science The Brazilian community has increased in the last years in quantity and in quality of the works most of them being published in respectable international journals on the subject The chapters of this volume are forwarded by a general introduction which aims to sketch not only the contents of the chapters but it is conceived as a historical and conceptual guide to the development of the field in Brazil The introduction intends to be useful to the reader and not only to the specialist helping them to evaluate the increase in production of this country within the international

context **Nuclear Fear** Spencer R. WEART, Spencer R Weart, 2009-06-30 Our thinking is inhabited by images images of sometimes curious and overwhelming power The mushroom cloud weird rays that can transform the flesh the twilight world following a nuclear war the white city of the future the brilliant but mad scientist who plots to destroy the world all these images and more relate to nuclear energy but that is not their only common bond Decades before the first atom bomb exploded a web of symbols with surprising linkages was fully formed in the public mind The strange kinship of these symbols can be traced back not only to medieval symbolism but still deeper into experiences common to all of us This is a disturbing book it shows that much of what we believe about nuclear energy is not based on facts but on a complex tangle of imagery suffused with emotions and rooted in the distant past Nuclear Fear is the first work to explore all the symbolism attached to nuclear bombs and to civilian nuclear energy as well employing the powerful tools of history as well as findings from psychology sociology and even anthropology The story runs from the turn of the century to the present day following the scientists and journalists the filmmakers and novelists the officials and politicians of many nations who shaped the way people think about nuclear devices The author a historian who also holds a Ph D in physics has been able to separate genuine scientific knowledge about nuclear energy and radiation from the luxuriant mythology that obscures them In revealing the history of nuclear imagery Weart conveys the hopeful message that once we understand how this imagery has secretly influenced history and our own thinking we can move on to a clearer view of the choices that confront our civilization

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Reviews of this book
 Nuclear Fear is a rich layered journey back through our atomic history to the primal memories of monstrous mutants and mad scientists It is a deeply serious book but written in an accessible style that reveals the culture in which this fear emerges only to be suppressed and emerge again Ellen Goodman Boston Globe Reviews of this book A historical portrait of the quintessential modern nightmare Weart shows in meticulous and fascinating detail how the ancient images of alchemy fire sexuality Armageddon gold eternity and all the rest immediately clustered around the new science of atomic physics There is no question that the image of nuclear power reflects a complex and deeply disturbing portrait of what it means to be human Stephan Salisbury Philadelphia Inquirer Reviews of this book A detailed probing study of American hopes dreams and insecurities in the twentieth century Weart has a poet s acumen for sensing human feelings Nuclear Fear remains captivating as history and original as an anthropological study of how nuclear power like alchemy in medieval times offers a convenient symbol for deeply rooted human feelings Los Angeles Times Reviews of this book Weart s tale boldly sweeps from the futuristic White City of the 1893 Chicago World s Fair and the discovery of radioactivity in 1896 through Hiroshima and Star Wars An admirable call for synthesis of art and science in a true transmutation that takes us beyond nuclear fear H Bruce Franklin Science

The Boy Who Played with Fusion Tom Clynes, 2015-06-09 This story of a child prodigy and his unique upbringing is an engrossing journey to the outer realms of science and parenting Paul Greenberg author of Four Fish A PEN E O Wilson Literary Science Writing Award Finalist Like many young children Taylor Wilson dreamed of becoming an astronaut Only Wilson mastered the science of rocket propulsion by the age of nine When he was eleven he tried to cure his grandmother s cancer and discovered new ways to produce medical isotopes Then at fourteen Wilson became the youngest person in history to achieve nuclear fusion building a 500 million degree reactor in his parents garage In The Boy Who Played with Fusion science journalist Tom Clynes narrates Wilson s extraordinary story Born in Texarkana Arkansas Wilson quickly displayed an advanced intellect Recognizing their son s abilities and the limitations of their local schools his parents took a bold leap and moved the family to Reno Nevada There Wilson could attend a unique public high school created specifically for academic superstars Wilson is now designing devices to prevent terrorists from shipping radioactive material and inspiring a new generation to take on the challenges of science If you re wondering how someone so young can achieve

so much The Boy Who Played with Fusion has the answer Along the way Clynes narrative teaches parents teachers and society how and why we urgently need to support high achieving kids An essential contribution to our understanding of the most important underlying questions about the development of giftedness talent creativity and intelligence Psychology Today A compelling study of the thrills and burdens of being born with an alpha intellect Financial Times

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