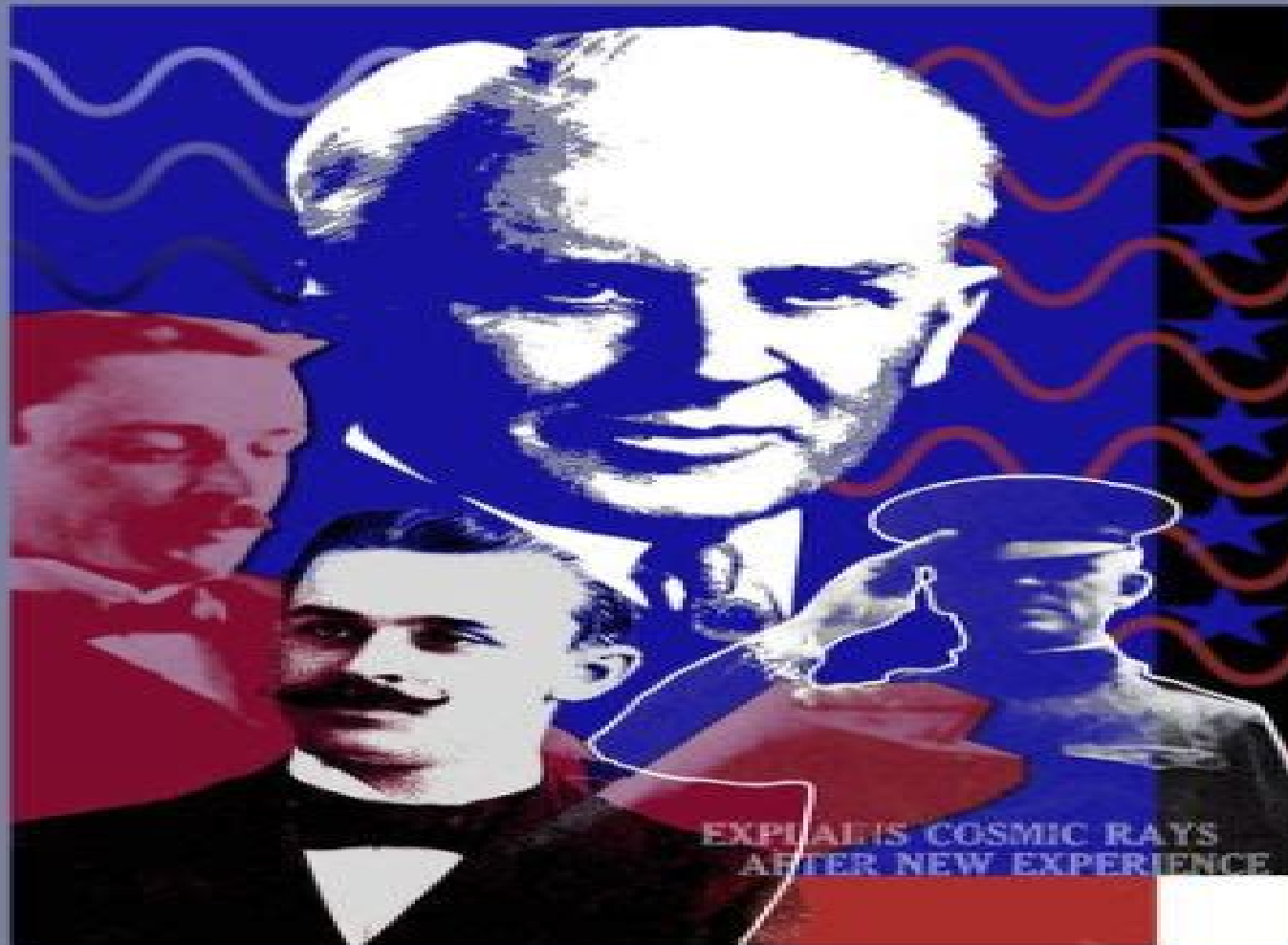


THE RISE OF ROBERT MILLIKAN



ROBERT H. KARGON

Rise Of Robert Millikan

Andrew John Jewett



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Splinters of Infinity Mark Wolverton, 2024-03-12 The riveting story of a modern age scientific feud between two Nobel Prize winning scientists over the nature of cosmic rays and the universe Set in a revolutionary era of physics and science when a series of rapid fire discoveries was upending our understanding of the universe *Splinters of Infinity* by Mark Wolverton tells a little known story the tale of two of America s foremost physicists Robert Millikan 1868 1953 and Arthur Compton 1892 1962 who found themselves locked in an intense often deeply personal conflict about cosmic rays Confirmed in 1912 cosmic rays enigmatic forms of penetrating radiation seemed to raise all new questions about the origins of the universe but they also offered the potential to explain everything or reveal the existence of God In engaging accessible prose Wolverton takes the reader through the twists and turns of the Millikan Compton debate one of the first major public examples of how heated the controversies among scientists could become and the lengths that scientists would go to settle their disputes What set them apart at least in most cases Wolverton shows was their ability to concentrate finally on what mattered the science Along the way Wolverton probes the forever elusive question still unanswered today about where cosmic rays come from and what they reveal about black holes distant galaxies the existence of dark matter and dark energy and the birth of the universe concluding that these splinters of infinity may not hold the keys to the secret of creation but do bring us ever closer to it

Physical Chemistry from Ostwald to Pauling John W. Servos, 1990 John Servos explains the emergence of physical chemistry in America by presenting a series of lively portraits of such pivotal figures as Wilhelm Ostwald A A Noyes G N Lewis and Linus Pauling and of key institutions including MIT the University of California at Berkeley and Caltech In the early twentieth century physical chemistry was a new hybrid science the molecular biology of its time The names of its progenitors were familiar to everyone who was scientifically literate studies of aqueous solutions and of chemical thermodynamics had transformed scientific knowledge of chemical affinity By exploring the relationship of the discipline to industry and to other sciences and by tracing the research of its leading American practitioners Servos shows how physical chemistry was eclipsed by its own offspring specialties like quantum chemistry

[Globalizing Physics](#) Roberto Lalli, Jaume Navarro, 2024-07-09 This is an open access book available under the terms of a CC BY NC ND 4.0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations Following the centenary of the International Union of Pure and Applied Physics this volume features contributions from leading science historians from around the world on the changing roles of the institution in international affairs from its foundation in 1922 to the present The case studies presented in this volume show the multitude of functions that IUPAP had and how these were related to the changing international political contexts The book is divided into three parts The first discusses the interwar period demonstrating how the exclusion of communities of the Central Powers from international scientific institutions imposed by victorious allied countries made IUPAP ineffective until the end of World War

II The second part analyzes the changing roles assumed by IUPAP starting from its complete renovation after World War II Case studies covering the role of IUPAP in physics education in metrology in joint commissions with other unions and in defining the complex relations between pure and applied physics provide examples of IUPAP's impact on the world of science Part III squarely addresses the science diplomacy aspects of IUPAP during the Cold War highlighting the importance of IUPAP in furthering diplomatic goals and explaining the origin of the pursuit of the free circulation of scientists as the activity that characterized the main function of international unions during the Cold War Highlighting how often scientific agendas and political imperatives were entangled in the activities of IUPAP the book analyzes the work of the Union as exercises of science diplomacy thus contributing to the current debate on the use of science and technology in international relations

Millikan's School: A History of the California Institute of Technology Judith Goodstein, 2020-10-19 In November 1891 wealthy former abolitionist and Chicago politician Amos Throop founded a thoroughly undistinguished small college in Pasadena California which he named after himself Millikan's School is the history of this institution that stands today at the pinnacle of world academics with 300 full time faculty nearly 1 000 undergraduate 1 250 graduate students and 39 Caltech and alumni Nobel Prize recipients Although Amos Throop the name of the college was changed to Caltech in 1920 could not have realized the importance of geography the fact that Pasadena lay at the foot of Mount Wilson was central to its success astronomer George Ellery Hale built his telescope there in 1902 the finest at that time in the world Later Hale joined the board of trustees of the struggling school and persuaded Arthur Amos Noyes former president of MIT and the nation's leading physical chemist to join him in Pasadena The third member of Caltech's founding troika was renowned physicist Robert A Millikan from the University of Chicago The dedication of Caltech in 1920 and the proclamation of what it stood for in science and education set the stage for Millikan who functioned as the school's president to bring the best and the brightest from all over the world Theodore von Kármán in aeronautics Thomas Hunt Morgan in biology Paul Sophus Epstein in physics Beno Gutenberg in seismology Linus Pauling in chemistry to Pasadena to work in an ever larger number of areas in science and technology The book also covers the funding planning and construction of the 200 inch telescope on Palomar Mountain Willy Fowler's work in nuclear astrophysics and the wartime rocket experiments that grew into the Jet Propulsion Laboratory JPL today the world leader in deep space exploration Millikan's School presents an interesting and thoroughly reliable account of the astonishing change over a period of a few years of a small technical school in Pasadena California into one of the world's leading scientific institutions Linus Pauling In Millikan's School Judith Goodstein tells the remarkable story of the rise of Caltech She details how Millikan aided by Hale and Arthur Amos Noyes America's leading physical chemist and another of Hale's inspired acquisitions took a former trade school and forged from it a grandiose university among the orange groves It would be impossible while reading Goodstein's lively account not to be impressed by the energy drive and boundless enthusiasm of men like Millikan Hale and Noyes who had the bare faced audacity to set about building an institute

to rival the cream of the universities of Europe and America Marcus Chown New Scientist Goodstein's story is first and foremost the tale of three men the astronomer George Ellery Hale the chemist Alfred Noyes and the physicist Robert Millikan It is the story of their attempts to transform an undistinguished little school founded in 1891 into a world class scientific establishment A useful book Tony Rothman Science In Millikan's School the story of Throop University's transformation into Caltech is told with precision Judith Goodstein's history offers a quick tour of the landmarks of science in the mid 20th Century and a glance at how pure science puts itself at the service of government commerce and the military Goodstein approaches her subject with a healthy sense of humor and an acute sense of academic politics She tells a wonderful story about how Caltech lost to Princeton in a bidding war over the services of Albert Einstein for example To her credit Goodstein asks the hard question What is the best way to do science Millikan's School offers enough hard data to enable us to come to our own conclusions Jonathan Kirsch Los Angeles Times A cleanly written scientifically well informed account of one of the world's foremost institutions for science and technology Ed Regis Nature Relying on archival material published secondary sources and interviews with institute scientists Goodstein presents a highly readable account of Caltech's beginnings at the turn of the century substantive informative and a good read Rebecca S Lowen Technology and Culture As a history of science this book is well crafted Orderly in its flow it is not only a tribute to Millikan but also places him within the development of physics as a field Andrew Rolle Southern California Quarterly A fascinating history that speaks to issues far larger than Cal Tech itself This well written and honest account witness the many cited instances of anti-Semitism in the scientific world is both a good read and a sobering reminder that big science and top schools are not brought by storks Carroll Pursell History of Education Quarterly The author focuses on the personalities and the research fields of the principal scientific figures The emphasis on personalities and capsule surveys of relevant scientific fields produce a book that can be apprehended by a wide audience Roger Geiger Isis This chronicle offers glimpses of the passion and drive that have motivated a roster of distinguished scientists Publishers Weekly A lively tale Goodstein's individual profiles are lean and candid her background on subjects as diverse as nuclear astrophysics seismology aeronautical design quantum mechanics and rocket fuel are crisp and understandable With a light style and meticulous documentation Goodstein has produced a tale worthy of her subject Marshall Robinson Foundation News A distinguished and uniquely American institution has found its chronicler and its chronicle in Judith Goodstein's thorough but compact story of Millikan's School The emergence of Caltech as a powerhouse of science and engineering and a makeweight in the technological advancement of 20th century industry is both beautifully and reliably presented Harry Woolf Institute for Advanced Study Princeton University *America, History and Life*, 1985 Provides historical coverage of the United States and Canada from prehistory to the present Includes information abstracted from over 2 000 journals published worldwide **A Guidebook for Teaching Physics** William Yurkewicz, 1985 **A Change of State** Michael Aaron Dennis, 1990 *America's Weather Warriors, 1814-1985* Charles Carpenter Bates, John

Frederick Fuller, 1986 This book fills an important gap in the literature I endorse it enthusiastically not only to those interested in an unusual aspect of science but also to military commanders at all levels who wish to use weather as an ally rather than to face it as a foe Lt Gen Thomas S Moorman USAF Ret America's military weather forecasters have played a crucial role in the success or failure of military operations such as the Normandy invasion of World War II and the aborted Iranian hostage rescue mission of April 1980 Here is the story of America's weather warriors and their contribution to military meteorology as well as to strategy and tactics Based on interviews letters reports and first hand experience the authors describe the human interplay and personalized leadership that were so important in the birth and development of the U S military weather services

Der Prozess der Geistesgeschichte Günter Dux, Ulrich Wenzel, 1994 *Technology and Culture*, 1989

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Teaching in the History of Science, 1989

Risé Hvezd, 1935

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Notable Scientists from 1900 to the Present: I-M Brigham Narins, 2001 This updated second edition of *Notable Twentieth Century Scientists* provides biographies of approximately 1 600 scientist in the natural physical and applied sciences including astronomy biology botany chemistry earth science mathematics medicine physics technology zoology computer science ecology engineering and environmental science Entries highlight name birth death dates nationality and primary specialization run from 400 2500 words list publications and feature a section of further reading All five volumes of the set begin with a list of entries and a chronology of major advances and volume five ends with several indexes based on the scientist's specialization gender nationality ethnicity and subject Over 400 scientists garner photographs Diversity and internationalism are hallmarks of the set Suitable for high school and college c Book News Inc

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web jun 10 2019 1 answer sorted by 3 i am afraid direct acid base titration is not the right way to analyze aspirin exactly because of the you stated hydrolysis the rule number no of any titration is that there should be no side reaction and it

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web determination of an unknown quantity of aspirin using back titration back ground theory many reactions are slow or present unfavourable equilibria for direct titration aspirin is a weak acid therefore it can react with a base such as sodium hydroxide NaOH this is an example of an acid base titration see reaction 1

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web topic determination of aspirin in tablets using back titration aim to calculate and compare the active pharmaceutical ingredient API in different commercially available aspirin tablets of the same batch using titration technique standard s indicator s 5 1 8 b1

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web what is back titration it is basically an analytical technique in chemistry which is performed backwards in the method that is a user needs to find the concentration of a reactant of a given unknown concentration by reacting it with an excess volume of another reactant of a known concentration

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web second you will titrate a sample of your aspirin acetylsalicylic acid with the standardized naoh to determine the moles of acid in a given weight of your product this will allow you to assess its purity assuming the aspirin is not contaminated with other acids the titration allows you to quantitatively determine the purity of your aspirin

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web 4 6 back titration 1 the active ingredient in aspirin tablets is acetylsalicylic acid CC(=O)OC1=CC=CC=C1C(=O)O the acetylsalicylic acid content of an aspirin tablet can be determined using a back titration four aspirin tablets were crushed and added to 25.0 cm³ of 1.00 mol l⁻¹ sodium hydroxide solution

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web pubchemdatabase aspirin cid 2244 here back titration was done to obtain the concentration of aspirin from known aspirin tablets amount of product expected was 0.5g measured yield obtained was 0.335g which shows there was an error in the determination

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web of this study is to analysis of aspirin and compares both direct titration and back titration techniques to the standard hplc technique in order to find alternative easy and cheaper procedure to assess the quality of active components of medications aspirin in

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