

The Millikan Oil-Drop Experiment



$$F_E = F_G$$

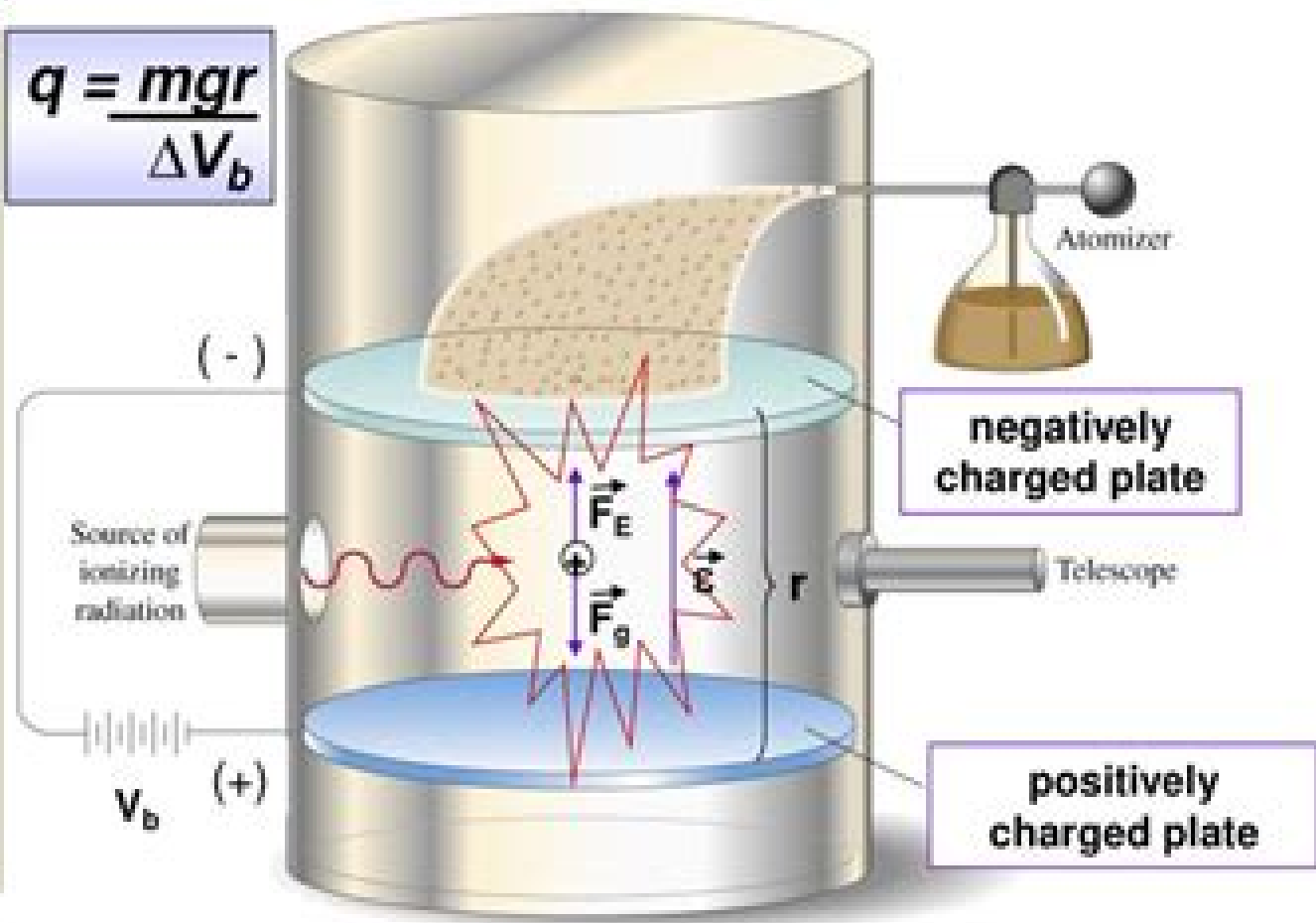
$$q\varepsilon = mg$$

$$\text{since } \varepsilon = \frac{\Delta V}{r}$$

where ΔV_b is the
balancing value
b/w the plates

$$q \left(\frac{\Delta V_b}{r} \right) = mg$$

$$q = \frac{mgr}{\Delta V_b}$$



On Millikan

JE Gale



On Millikan:

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 **NASA Technical Translation**

,1971 **The Oxford Handbook of Assertion** Sanford C. Goldberg,2020-03-17 Assertions belong to the family of speech acts that make claims regarding how things are They include statements avowals reports expressed judgments and testimonies acts which are relevant across a host of issues not only in philosophy of language and linguistics but also in subdisciplines such as epistemology metaphysics philosophy of mind ethics and social and political philosophy Over the past two decades the amount of scholarship investigating the speech act of assertion has increased dramatically and the scope of such research has also grown The Oxford Handbook of Assertion explores various dimensions of the act of assertion its nature its place in a theory of speech acts and in semantics and meta semantics its role in epistemology and the various social political and ethical dimensions of the act Essays from leading theorists situate assertion in relation to other types of speech acts exploring the connection between assertions and other phenomena of interest not only to philosophers but also to linguists psychologists anthropologists lawyers computer scientists and theorists from communication studies

Engineer of Revolutionary Russia Anthony Heywood, 2011 From Marxist revolutionary to American academic this book reveals the life of one of revolutionary Russia's most distinguished and controversial engineers Iurii Vladimirovich Lomonosov 1876-1952 The book employs an exceptionally rich base of high quality primary sources that not only provides a much needed account and assessment of Lomonosov's life but also contributes to the growing academic interest in the history of science and technology in Russia and the Soviet Union

Scientific Practice Jed Z. Buchwald, 1995-11 Most recent work on the nature of experiment in physics has focused on big science the large scale research addressed in Andrew Pickering's *Constructing Quarks* and Peter Galison's *How Experiments End* This book examines small scale experiment in physics in particular the relation between theory and practice The contributors focus on interactions among the people materials and ideas involved in experiments factors that have been relatively neglected in science studies The first half of the book is primarily philosophical with contributions from Andrew Pickering Peter Galison Hans Radder Brian Baigrie and Yves Gingras Among the issues they address are the resources deployed by theoreticians and experimenters the boundaries that constrain theory and practice the limits of objectivity the reproducibility of results and the intentions of researchers The second half is devoted to historical case studies in the practice of physics from the early nineteenth to the early twentieth century These chapters address failed as well as successful experimental work ranging from Victorian astronomy through Hertz's investigation of cathode rays to Trouton's attempt to harness the ether Contributors to this section are Jed Z. Buchwald Giora Hon Margaret Morrison Simon Schaffer and Andrew Warwick With a lucid introduction by Ian Hacking and original articles by noted scholars in the history and philosophy of science this book is poised to become a significant source on the nature of small scale experiment in physics

Pursuit Thomas Perry, 2001-12-18 Thirteen bodies are discovered inside a small Louisville restaurant just after closing time The ferocity and apparent randomness of the crime prompt the police to call in criminology professor Daniel Millikan they want a profile of the murderer Millikan determines that the crime was committed not by a psychopath but by a professional killer of consummate skill and total lack of feeling I think that the one who did it is one of the special cases He's somebody we can't afford to have walking down a street where our families walk When Millikan learns that the investigation has come to a complete standstill he commits himself to an unorthodox decision The only hope of stopping this killer and ending the bloodshed is to employ Roy Prescott an expert in the narrow specialty of hunting down murderers through methods the police can't and wouldn't use And so begins a stunning novel by Thomas Perry one of the most thoroughly satisfying writers around Lawrence Block a death match fought from one end of the country to the other by two enemies who both understand that only one of them will be alive at the end

Mindscapes Martin Carrier, Peter Machamer, 2014-03-26 Leading scholars in the fields of philosophy and the sciences of the mind have contributed to this newest volume in the prestigious Pittsburgh Konstanz series Among the problem areas discussed are folk psychology meanings as conceptual structures functional and qualitative properties of colors the role of conscious mental

states representation and mental content the impact of connectionism on the philosophy of the mind and supervenience emergence and realization Most of the essays are followed by commentaries that reflect ongoing debates in the philosophy of the mind and often develop a counterpoint to the claims of the essayists Reconstructing Reason and Representation Murray Clarke,2022-06-07 A study of the philosophical implications of evolutionary psychology suggesting that knowledge is a set of natural kinds housed in the modules of a massively modular mind In Reconstructing Reason and Representation Murray Clarke offers a detailed study of the philosophical implications of evolutionary psychology In doing so he offers new solutions to key problems in epistemology and philosophy of mind including misrepresentation and rationality He proposes a naturalistic approach to reason and representation that is informed by evolutionary psychology and expanding on the massive modularity thesis advanced in work by Leda Cosmides and John Tooby argues for a modular adapticist account of misrepresentation and knowledge Just as the reliability of representation can be defended on the basis of an account of the proper function of cognitive modularity misrepresentation can be explained through an appeal to the gap theory by noting the divergence between the proper and actual domains of cognitive modules in a massively modular mind Clarke argues for an externalist modular reliabilism by suggesting that evolution has equipped us with generally reliable inferential systems even if they do not always produce true beliefs He argues that reliable deductive and inductive inference occurs only when cognitive modules deal with actual domains that are sufficiently similar to their proper domains This psychologically informed naturalized adapticism leads to the suggestion that knowledge is a set of natural kinds housed in the modules of a massively modular mind Typically the proper function of these cognitive modules is to provide us with truths that enable us to satisfy our basic biological needs Beyond reasoning modules other cognitive modules discussed include the ability to orient ourselves in space and our abilities with language numbers object reasoning and social understanding Clarke also defends Cosmides and Tooby s massive modularity hypothesis against such critics as Jerry Fodor by demonstrating that these critics consistently misrepresent Cosmides and Tooby s position **The Discovery of Subatomic Particles Revised Edition**

Steven Weinberg,2003-09 In this absorbing commentary on the discovery of the atom s constituents Steven Weinberg accomplishes a brilliant fusion of history and science This is in effect two books cleverly interwoven One is an account of a sequence of key events in the physics of the twentieth century events that led to the discoveries of the electron proton and neutron The other is an introduction to those fundamentals of classical physics that played crucial roles in these discoveries Physical concepts are introduced where needed to understand the historical story and each new concept builds on physics already explained Throughout the book connections are shown between the historic discoveries of subatomic particles and work today at the frontiers of physics A final chapter describes the discoveries of new elementary particles up to the present day *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

Protestant Modernist Pamphlets Edward B. Davis, 2024-10-08 A critical edition of ten rare pamphlets on science and religion published from 1922 1931 by the University of Chicago Divinity School In the years surrounding the Scopes trial in 1925 liberal Protestant scientists theologians and clergy sought to diminish opposition to evolution and to persuade American Christians to adopt more positive attitudes toward modern science With funding from the Rockefeller Foundation and many leading scientists the University of Chicago Divinity School published a series of ten pamphlets on science and religion to counter William Jennings Bryan's efforts to ban evolution in public schools In *Protestant Modernist Pamphlets* historian Edward B. Davis who discovered these pamphlets reprints them with extensive editorial comments annotations and introductions to each Based on unpublished correspondence and internal Divinity School documents these introductions narrate the origin of the pamphlets as well as their funding sources and how readers reacted to them Letters from dozens of top scientists at the time reveal their previously unknown views on God and the relationship between science and religion Viewed together the pamphlets and Davis's critical assessment of their historical importance provide an intriguing perspective on Protestant modernist encounters with science in the early twentieth century

Thematic Origins of Scientific Thought Gerald Holton, 1988-05-25 The highly acclaimed first edition of this major work convincingly established Gerald Holton's analysis of the ways scientific ideas evolve His concept of *themata* induced from case studies with special attention to the work of Einstein has become one of the chief tools for understanding scientific progress It is now one of the main approaches in the study of the initiation and acceptance of individual scientific insights Three principal consequences of this perspective extend beyond the study of the history of science itself It provides philosophers of science with the kind of raw material on which some of the best work in their field is based It helps intellectual historians to redefine the place of modern science in contemporary culture by identifying influences on the

scientific imagination And it prompts educators to reexamine the conventional concepts of education in science In this new edition Holton has masterfully reshaped the contents and widened the coverage Significant new material has been added including a penetrating account of the advent of quantum physics in the United States and a broad consideration of the integrity of science as exemplified in the work of Niels Bohr In addition a revised introduction and a new postscript provide an updated perspective on the role of themata The result of this thoroughgoing revision is an indispensable volume for scholars and students of scientific thought and intellectual history **Selected Philosophical Essays** Carl G.

Hempel,2000-01-13 This book offers a fresh perspective on Hempel s intellectual development and on the rise and demise of logical empiricism Comparative Approaches to Cognitive Science H. L. Roitblat,Jean-Arcady Meyer,1995 Presents an animal based largely non symbolic approach to understanding the basic mechanisms involved in adaptive intelligence Contributions discuss and explain concepts and techniques providing a balance of both theoretical and empirical approaches

The Dawn of Fluid Dynamics Michael Eckert,2007-06-27 This is the first publication to describe the evolution of fluid dynamics as a major field in modern science and engineering It contains a description of the interaction between applied research and application taking as its example the history of fluid mechanics in the 20th century The focus lies on the work of Ludwig Prandtl founder of the aerodynamic research center AVA in G ttingen whose ideas and publications have influenced modern aerodynamics and fluid mechanics in many fields While suitable for others this book is intended for natural scientists and engineers as well as historians of science and technology **The Scientific Imagination** Gerald James Holton,1998

Using firsthand accounts gleaned from notebooks interviews and correspondence of such twentieth century scientists as Einstein Fermi and Millikan Holton shows how the idea of the scientific imagination has practical implications for the history and philosophy of science and the larger understanding of the place of science in our culture Flash of the Cathode Rays Per F Dahl,1997-01-01 The electron is fundamental to almost all aspects of modern life controlling the behavior of atoms and how they bind together to form gases liquids and solids Flash of the Cathode Rays A History of J J Thomson s Electron presents the compelling story of the discovery of the electron and its role as the first subatomic particle in nature The book traces the evolution of the concept of electrical charge from the earliest glow discharge studies to the final cathode ray and oil drop experiments of J J Thomson and Robert Millikan It also provides an overview of the history of modern physics up to the advent of the old quantum theory around 1920 Consolidating scholarly material while incorporating new material discovered by the well respected author the book covers the continental and English race for the source of the cathode rays culminating in Thomson s corpuscle in 1897 It explores the events leading to Millikan s unambiguous isolation of the electron and the simultaneous circumstances surrounding the birth of Ernest Rutherford s nuclear atom and the discovery of radioactivity in 1896 The author also focuses on the controversies over N rays Becquerel s positive electron and the famous Ehrenhaft Millikan dispute over subelectrons Scholarly yet accessible to those with basic physics knowledge this book should

be of interest to historians of science professional scientists and engineers teachers and students of physics and general readers interested in the development of modern physics

The Prism and the Pendulum Robert Crease, 2007-12-18 Is science beautiful Yes argues acclaimed philosopher and historian of science Robert P Crease in this engaging exploration of history s most beautiful experiments The result is an engrossing journey through nearly 2 500 years of scientific innovation Along the way we encounter glimpses into the personalities and creative thinking of some of the field s most interesting figures We see the first measurement of the earth s circumference accomplished in the third century B C by Eratosthenes using sticks shadows and simple geometry We visit Foucault s mesmerizing pendulum a cannonball suspended from the dome of the Panth on in Paris that allows us to see the rotation of the earth on its axis We meet Galileo the only scientist with two experiments in the top ten brilliantly drawing on his musical training to measure the speed of falling bodies And we travel to the quantum world in the most beautiful experiment of all We also learn why these ten experiments exert such a powerful hold on our imaginations From the ancient world to cutting edge physics these ten exhilarating moments reveal something fundamental about the world pulling us out of confusion and revealing nature s elegance The Prism and the Pendulum brings us face to face with the wonder of science

Oxford Studies in Metaethics 11 Russ Shafer-Landau, 2016-08-04 Oxford Studies in Metaethics is the only publication devoted exclusively to original philosophical work in the foundations of ethics It provides an annual selection of much of the best new scholarship being done in the field Its broad purview includes work being done at the intersections of ethical theory with metaphysics epistemology philosophy of language and philosophy of mind The essays included in the series provide an excellent basis for understanding recent developments in the field those who would like to acquaint themselves with the current state of play in metaethics would do well to start here

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