

THE TEN MOST BEAUTIFUL
EXPERIMENTS IN SCIENCE

THE PRISM

AND THE



PENDULUM

ROBERT P. CREASE

Prism And The Pendulum The Ten Most Beautiful Experiments In Science

Robert P. Crease



Prism And The Pendulum The Ten Most Beautiful Experiments In Science:

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

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The Ten Most Beautiful Experiments George Johnson, 2009-03-10 A dazzling irresistible collection of the ten most groundbreaking and beautiful experiments in scientific history With the attention to detail of a historian and the storytelling ability of a novelist New York Times science writer George Johnson celebrates these groundbreaking experiments and re creates a time when the world seemed filled with mysterious forces and scientists were in awe of light electricity and the human body Here we see Galileo staring down gravity Newton breaking apart light and Pavlov studying his now famous dogs This is science in its most creative hands on form when ingenuity of the mind is the most useful tool in the lab and the rewards of a well considered experiment are on exquisite display

Transmission Electron Microscopy Andrzej Marek Żak, 2024-11-04 Transmission electron microscopy is a powerful tool for looking at small physical specimens from nanomaterials metal alloys and other structural materials to microorganisms tissues and biomacromolecules The book covers microscope design and explains how the microscope functions and operates It provides the essential theoretical and practical information in a compact manner together with case studies and a summary of good operator practices

The Quantum Moment Robert P. Crease, Alfred Scharff Goldhaber, 2014-09-29 A very fun way to learn about where quantum physics comes from and the strange even astonishing places it has gone Peter Galison Harvard University author of *Einstein s Clocks*

Poincaré's Maps From multiverses and quantum leaps to Schrödinger's cat and time travel quantum mechanics has irreversibly shaped the popular imagination. Entertainers and writers from Lady Gaga to David Foster Wallace take advantage of its associations and nuances. In *The Quantum Moment* philosopher Robert P. Crease and physicist Alfred Scharff Goldhaber recount the fascinating story of how the quantum jumped from physics into popular culture with brief explorations of the underlying math and physics concepts and descriptions of the fiery disputes among figures including Einstein, Schrödinger and Niels Bohr. Understanding and appreciating quantum imagery, its uses and abuses is part of what it means to be an educated person in the twenty-first century. *The Quantum Moment* serves as an indispensable guide. *Critical Appraisal of Physical Science as a Human Enterprise* Mansoor Niaz, 2009-02-07. It is generally believed that doing science means accumulating empirical data with no or little reference to the interpretation of the data based on the scientist's theoretical framework or presuppositions. Holton (1969a) has deplored the widely accepted myth, experimenticism, according to which progress in science is presented as the inexorable result of the pursuit of logically sound conclusions from unambiguous experimental data. Surprisingly, some of the leading scientists themselves, Millikan is a good example, have contributed to perpetuate the myth with respect to modern science being essentially empirical, that is, carefully tested experimental facts free of a priori conceptions leading to inductive generalizations. Based on the existing knowledge in a field of research, a scientist formulates the guiding assumptions. Laudan et al. (1988) presupposes Holton (1978, 1998) and hardcore Lakatos (1970) of the research program that constitutes the imperative of presuppositions, which is not abandoned in the face of anomalous data. Laudan and his group consider the following paraphrase of Kant by Lakatos as an important guideline: philosophy of science without history of science is empty. Starting in the 1960s, this historical school has attempted to redraw and replace the positivist or logical empiricist image of science that dominated for the first half of the twentieth century. Among other aspects, one that looms large in these studies is that of guiding assumptions and has considerable implications for the main thesis of this monograph. Chapter 2 **The Aesthetics of Scientific Experiments** Milena Ivanova, Alice Murphy, 2023-06-16. The relationship between aesthetics and science has begun to generate substantial interest. However, for the most part, the focus has been on the beauty of theories, and other aspects of scientific practice have been neglected. This book offers a novel perspective on aesthetics in experimentation via ten original essays from an interdisciplinary group comprised of philosophers, historians of science and art, and artists. The collection provides an analysis of the concept of beauty in the evaluation of experiments: What properties do practising experimenters value? How have the aesthetic properties of scientific experiments changed over the years? Secondly, the volume looks at the role that aesthetic factors, including negative values such as ugliness, as well as experiences of the sublime and the profound, play in the construction of an experiment and its reception. Thirdly, the chapters provide in-depth historical case studies from the Royal Society, which also allows for a study of the depiction of scientific experiment in artworks, as well as contemporary examples from the Large Hadron Collider and

cases of experiments designed by artificial intelligence Finally it offers an exploration of the commonalities between how we learn from experiments on the one hand and the cognitive value of artworks on the other The Aesthetics of Scientific Experiments will be of interest to researchers and advanced students working in philosophy and history of science philosophy and history of art as well as practising scientists and science communicators

Philosophy of Technology: Oxford Bibliographies Online Research Guide Soren Riis, 2010-06 This ebook is a selective guide designed to help scholars and students of social work find reliable sources of information by directing them to the best available scholarly materials in whatever form or format they appear from books chapters and journal articles to online archives electronic data sets and blogs Written by a leading international authority on the subject the ebook provides bibliographic information supported by direct recommendations about which sources to consult and editorial commentary to make it clear how the cited sources are interrelated related This ebook is a static version of an article from Oxford Bibliographies Online Philosophy a dynamic continuously updated online resource designed to provide authoritative guidance through scholarship and other materials relevant to the study Philosophy Oxford Bibliographies Online covers most subject disciplines within the social science and humanities for more information visit www.oxfordbibliographies.com

Particles and Waves in Electron Optics and Microscopy, 2016-05-27 Advances in Imaging and Electron Physics merges two long running serials Advances in Electronics and Electron Physics and Advances in Optical and Electron Microscopy The series features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science digital image processing electromagnetic wave propagation electron microscopy and the computing methods used in all these domains Contains contributions from leading authorities on the subject matter Informs and updates all the latest developments in the field of imaging and electron physics Provides practitioners interested in microscopy optics image processing mathematical morphology electromagnetic fields electron and ion emission with a valuable resource Features extended articles on the physics of electron devices especially semiconductor devices particle optics at high and low energies microlithography image science and digital image processing

Philosophy of Music Education Challenged: Heideggerian Inspirations Frederik Pio, Øivind Varkøy, 2014-10-20 This volume offers key insights into the crisis of legitimization that music as a subject of arts education seems to be in Music as an educational subject is under intense pressure both economically due to the reduction of education budgets as well as due to a loss of status with policy makers The contributions in this book illuminate Martin Heidegger's thinking as a highly cogent theoretical framework for understanding the nature and depth of this crisis The contributors explore from various angles the relationship between the pressure on music education and the foundations of our technical and rationalized modern society and lead the way on the indispensable first steps towards reconnecting the cultural practices of education with music and its valuable contributions to personal development

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