

"Demonstrates that beauty, for scientists, is no less important than truth, and that one can be ravished by an experiment no less than by a work of art."

—OLIVER SACKS

# THE 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

**George Johnson**



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

**The Prism and the Pendulum** Robert Crease, 2004-10-12 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

The Prism and the Pendulum Robert P. Crease, 2006-04 An engrossing journey through nearly 2 500 years of scientific innovation plus glimpses into the personalities Foucault s mesmerizing pendulum a cannonball suspended from the dome of the Pantheon in Paris that shows the rotation of the earth on its axis Galileo the only scientist with 2 experiments in the top 10 measuring the speed of falling bodies Newton s decomposition of sunlight with prisms the quantum world in the most beautiful experiment of all We also learn why these 10 experiments exert such a powerful hold on our imaginations Ill

*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

*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

**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: How Planck, Bohr, Einstein, and Heisenberg Taught Us to Love Uncertainty** Robert P. Crease,Alfred Scharff Goldhaber,2014-10-13 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 Poincar 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 presuppositions Holton 1978 1998 and hard core 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](http://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

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**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

**The Workshop and the World: What Ten Thinkers Can Teach Us About Science and Authority** Robert P. Crease, 2019-03-26 A fascinating look at key thinkers throughout history who have shaped public perception of science and the role of authority When does a scientific discovery become accepted fact Why have scientific facts become easy to deny And what can we do about it In *The Workshop and the World* philosopher and science historian Robert P. Crease answers these questions by describing the origins of our scientific infrastructure the workshop and the role of ten of the world's greatest thinkers in shaping it At a time when the Catholic Church assumed total authority Francis Bacon Galileo Galilei and René Descartes were the first to articulate the worldly authority of science while writers such as Mary Shelley and Auguste Comte told cautionary tales of divorcing science from the humanities The provocative leaders and thinkers Kemal Atatürk and Hannah Arendt addressed the relationship between the scientific community and the public in times of deep distrust As today's politicians and government officials increasingly accuse scientists of dishonesty conspiracy and even hoaxes engaged citizens can't help but wonder how we got to this level of distrust and how we can emerge from it This book tells dramatic stories of individuals who confronted fierce opposition and sometimes risked their lives in describing the proper authority of science and it examines how ignorance and misuse of science constitute the preeminent threat to human life and culture An essential timely exploration of what it means to practice science for the common good as well as the danger of political action divorced from science *The Workshop and the World* helps us understand both the origins of our current moment of great anti-science rhetoric and what we can do to help keep the modern world from falling apart

**Material Hermeneutics** Don Ihde, 2021-11-29 *Material Hermeneutics* explores the ways in which new imaging technologies and scientific instruments have changed our notions about ancient history From the first lunar calendar to the black hole image and from an ancient mummy in the Italian Alps to the irrigated valleys of Mesopotamia this book demonstrates how revolutions in science have taught us far more than we imagined Written

by a leading philosopher of technology and utilizing an interdisciplinary approach this book has implications for many fields including philosophy history science and technology It will appeal to scholars and students of the humanities as well as anthropologists and archaeologists

**Measurement and Data Analysis for Engineering and Science** Patrick F Dunn, Michael P. Davis, 2017-12-06 Measurement and Data Analysis for Engineering and Science Fourth Edition provides up to date coverage of experimentation methods in science and engineering This edition adds five new concept chapters to introduce major areas of experimentation generally before the topics are treated in detail to make the text more accessible for undergraduate students These feature Measurement System Components Assessing Measurement System Performance Setting Signal Sampling Conditions Analyzing Experimental Results and Reporting Experimental Results More practical examples case studies and a variety of homework problems have been added and MATLAB and Simulink resources have been updated

**Science, Worldviews and Education** Michael Matthews, 2009-07-14 This book has its origins in a special issue of the journal Science Education Volume 18 Numbers 6 7 2009 The essay by Costas Skordoulis Science and Worldviews in the Marxist Tradition did not appear in that special issue due to a mistake in production scheduling It was published in an earlier issue of the journal Volume 17 Number 6 2008 but has been included in this book version of the special issue As explained in the Introduction the catalyst for the journal special issue was the essay on Science Worldviews and Education submitted to the journal by Hugh G Gauch Jr This was circulated to the other contributors who were asked to write their own contribution in the light of the arguments and literature contained in the paper Hugh made brief Responses and Clarifications after the papers were written However the Tanis Edis article on Islam and my own article on Priestley were processed too late to benefit from Hugh's appraisal The journal is associated with the International History Philosophy and Science Teaching Group which was formed in 1987 The group stages biennial international conferences and occasional regional conferences details can be found at [www.ihpst.org](http://www.ihpst.org) The group though the journal conferences and its electronic newsletter at [www.ihpst.org](http://www.ihpst.org)

**Creativity and Innovation Among Science and Art** Christine Charyton, 2015-01-22 This edited book will address creativity and innovation among the two cultures of science and art Disciplines within science and art include medicine neurology music therapy art therapy physics chemistry engineering music improvisation education and aesthetics This book will be the first of its kind to appeal to a broad audience of students scholars scientists professionals practitioners physicians psychologists counsellors and social workers musicians artists educators and administrators In order to understand creativity and innovation across fields the approach is multidisciplinary While there is overlap across disciplines unique domain specific traits exist in each field and are also discussed in addition to similarities This book engages the reader with the comparison of similarities and differences through dialog across disciplines Authors of each chapter address creativity and innovation from their own distinct perspective Each chapter is transdisciplinary in approach These perspectives entail a representation of their field through research teaching service and or practice Heidegger on

Science Trish Glazebrook, 2012-02-23 Although Martin Heidegger is well known for his work on technology he is not often discussed in the context of science broadly speaking This volume is the first to showcase diverse perspectives on Heidegger's assessments of the sciences looking at a number of different ways that Heidegger's writings contribute to questions concerning how we understand the world through science With particular attention to quantum theory natural science technoscience and a section devoted specifically to investigating what Being and Time has to say about science the book will be of interest to scholars in a wide range of disciplines and traditions It closes with consideration of questions about sustainability and ethics raised by Heidegger's engagement with the sciences Through Two Doors at Once Anil

Ananthaswamy, 2019-06-11 The intellectual adventure story of the double slit experiment showing how a sunbeam split into two paths first challenged our understanding of light and then the nature of reality itself and continues to almost two hundred years later Many of science's greatest minds have grappled with the simple yet elusive double slit experiment Thomas Young devised it in the early 1800s to show that light behaves like a wave and in doing so opposed Isaac Newton Nearly a century later Albert Einstein showed that light comes in quanta or particles and the experiment became key to a fierce debate between Einstein and Niels Bohr over the nature of reality Richard Feynman held that the double slit embodies the central mystery of the quantum world Decade after decade hypothesis after hypothesis scientists have returned to this ingenious experiment to help them answer deeper and deeper questions about the fabric of the universe How can a single particle behave both like a particle and a wave Does a particle exist before we look at it or does the very act of looking create reality Are there hidden aspects to reality missing from the orthodox view of quantum physics Is there a place where the quantum world ends and the familiar classical world of our daily lives begins and if so can we find it And if there's no such place then does the universe split into two each time a particle goes through the double slit With his extraordinarily gifted eloquence Anil Ananthaswamy travels around the world and through history down to the smallest scales of physical reality we have yet fathomed Through Two Doors at Once is the most fantastic voyage you can take **The Great Equations:**

**Breakthroughs in Science from Pythagoras to Heisenberg** Robert P. Crease, 2010-01-18 Any reader who aspires to be scientifically literate will find this a good starting place Publishers Weekly While we may be familiar with some of science's greatest equations we may not know that each and every equation emerged not in Eureka moments but in years of cultural developments and scientific knowledge With vignettes full of humor drama and eccentricity philosopher and science historian Robert P Crease shares the stories behind ten of history's greatest equations from the first equation  $1 + 1 = 2$  which promises a rational well ordered world to Heisenberg's uncertainty principle which reveals the limitations of human knowledge For every equation Crease provides a brief account of who discovered it what dissatisfactions lay behind its discovery and what the equation says about the nature of our world **Teaching Einsteinian Physics in Schools** Magdalena Kersting, David Blair, 2021-08-30 In our world today scientists and technologists speak one language of reality Everyone else whether they be



prime ministers lawyers or primary school teachers speak an outdated Newtonian language of reality While Newton saw time and space as rigid and absolute Einstein showed that time is relative it depends on height and velocity and that space can stretch and distort The modern Einsteinian perspective represents a significant paradigm shift compared with the Newtonian paradigm that underpins most of the school education today Research has shown that young learners quickly access and accept Einsteinian concepts and the modern language of reality Students enjoy learning about curved space photons gravitational waves and time dilation often they ask for more A consistent education within the Einsteinian paradigm requires rethinking of science education across the entire school curriculum and this is now attracting attention around the world This book brings together a coherent set of chapters written by leading experts in the field of Einsteinian physics education The book begins by exploring the fundamental concepts of space time light and gravity and how teachers can introduce these topics at an early age A radical change in the curriculum requires new learning instruments and innovative instructional approaches Throughout the book the authors emphasise and discuss evidence based approaches to Einsteinian concepts including computer based tools geometrical methods models and analogies and simplified mathematical treatments Teaching Einsteinian Physics in Schools is designed as a resource for teacher education students primary and secondary science teachers and for anyone interested in a scientifically accurate description of physical reality at a level appropriate for school education

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