

"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

Robert Crease



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

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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

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

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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

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

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 The group though the journal conferences and its electronic newsletter at 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

Beautiful Experiments Philip Ball, 2023-09-15 A New Scientist Best Book of 2023 Featuring two hundred color plates this history of the craft of scientific inquiry is as exquisite as the experiments whose stories it shares This illustrated history of experimental science is more than just a celebration of the ingenuity that scientists and natural philosophers have used throughout the ages to study and to change the world Here we see in intricate detail experiments that have in some way or another exhibited elegance and beauty in their design their conception and their execution Celebrated science writer Philip Ball invites readers to marvel at and admire the craftsmanship of scientific instruments and apparatus on display from the earliest microscopes to the giant particle colliders of today With Ball as our expert guide we are encouraged to think carefully about what experiments are what they mean and how they are used Ranging across millennia and geographies Beautiful Experiments demonstrates why experiment remains a contested notion in science while

also exploring how we came to understand the way the world functions what it contains and where the pursuit of that understanding has brought us today **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

Tribute to Emil Wolf Emil Wolf, Tomasz Jansson, 2005 Wolf's contributions to optical physics go far beyond his co writing with Max Born the classic Principles of Optics He introduced spatial coherence he was the first to describe Gabor's holography and his work has served as the foundation of about 250 companies and corporate divisions in the English speaking world In these 23 essays two of which are tributes to the life of Wolf contributors consider aspects of his work such as the polarization of light the electromagnetic theory of optical coherence wave descriptions of optical measurements holographic microscopy optical physics and psychology the Wolf effect and the Wolf shift optical pathlength spectroscopy the diffractive multifocal focusing effect phase and information holography internal reflection tomography and nano optics Annotation 2004 Book News Inc Portland OR booknews.com

Enriching Our Vision of Reality Alister McGrath, 2017-08-10 Enriching our Vision of Reality is elegant erudite and animated by a constant enthusiasm for its subject There is everything here science theology philosophy biography even some poetry all enlisted to help us to see the world as it is both more clearly and with greater delight Reverend Doctor Andrew Davison Starbridge Lecturer in theology and natural sciences University of Cambridge and fellow in theology at Corpus Christi College It's a pleasure to read an introduction to science and Christian belief that is both erudite and accessible McGrath's new book is rich with personal examples biographies of famous scientists and theologians and effective refutations of their detractors This invitation to move forward from a bifurcated to an expansive view of reality

is recommended for all who seek an integrated understanding of science and Christian faith Philip Clayton editor of The Oxford Handbook of Religion and Science In this exceptional volume leading theologian Alister McGrath writes for scientists with an interest in theology and Christians and theologians who are aware of the importance of the natural sciences A scene setting chapter explores the importance of the human quest for intelligibility The focus then moves to three leading figures who have stimulated discussion about the relationship between science and theology in recent years Charles Coulson an Oxford professor of theoretical chemistry who was also a prominent Methodist lay preacher Thomas F Torrance perhaps the finest British theologian of the twentieth century and John Polkinghorne a theoretical physicist and theologian The final section of the book features six parallel conversations between science and theology which lay the groundwork for the kind of enriched vision of reality the author hopes to encourage Here we are inspired to enjoy individual aspects of nature while seeking to interpret them in the light of deeper revelations about our gloriously strange universe **Rethinking the**

Knowledge Controversy in Organization Studies Walter R. Nord, Ann F. Connell, 2012-03-29 Recently the field of organization studies has been plagued by intense disruptive controversy about what counts as knowledge This book written by the major researchers and voices in the field of organization studies attempts to respond to this controversy by offering the topic of generative uncertainty as the primary vehicle for rethinking about this issue The authors prefer admitting uncertainty to making unwarranted assumptions The ideas about questioning the possibility of knowledge that is certain goes back to before the time of Socrates This unique historical look at the study of organization studies will be of interest to all students and scholars of this field *Research on Physics Education* Edward F. Redish, Matilde Vicentini, Società italiana di fisica, 2004 Physics Education research is a young field with a strong tradition in many countries However it has only recently received full recognition of its specificity and relevance for the growth and improvement of the culture of Physics in contemporary Society for different levels and populations This may be due on one side to the fact that teaching therefore education is part of the job of university researchers and it has often been implicitly assumed that the competences required for good research activity also guarantee good teaching practice On the other side and perhaps more important is the fact that the problems to be afforded in doing research in education are complex problems that require a knowledge base not restricted to the disciplinary physics knowledge but enlarged to include cognitive science communication science history and philosophy The topics discussed here look at some of the facets of the problem by considering the interplay of the development of cognitive models for learning Physics with some reflections on the Physics contents for contemporary and future society with the analysis of teaching strategies and the role of experiments the issue of assessment **Optics in Our Time** Mohammad D. Al-Amri, Mohamed El-Gomati, M. Suhail Zubairy, 2016-12-12 Light and light based technologies have played an important role in transforming our lives via scientific contributions spanned over thousands of years In this book we present a vast collection of articles on various aspects of light and its applications in the contemporary world at a popular

or semi popular level These articles are written by the world authorities in their respective fields This is therefore a rare volume where the world experts have come together to present the developments in this most important field of science in an almost pedagogical manner This volume covers five aspects related to light The first presents two articles one on the history of the nature of light and the other on the scientific achievements of Ibn Haitham Alhazen who is broadly considered the father of modern optics These are then followed by an article on ultrafast phenomena and the invisible world The third part includes papers on specific sources of light the discoveries of which have revolutionized optical technologies in our lifetime They discuss the nature and the characteristics of lasers Solid state lighting based on the Light Emitting Diode LED technology and finally modern electron optics and its relationship to the Muslim golden age in science The book s fourth part discusses various applications of optics and light in today s world including biophotonics art optical communication nanotechnology the eye as an optical instrument remote sensing and optics in medicine In turn the last part focuses on quantum optics a modern field that grew out of the interaction of light and matter Topics addressed include atom optics slow stored and stationary light optical tests of the foundation of physics quantum mechanical properties of light fields carrying orbital angular momentum quantum communication and Wave Particle dualism in action

The Multidimensionality of Hermeneutic Phenomenology Babette Babich, Dimitri Ginev, 2014-01-15 This book offers new reflections on the life world from both phenomenological and hermeneutic perspectives It presents a prism for a new philosophy of science and technology especially including the social sciences but also the environment as well as questions of ethics and philosophical aesthetics in addition to exploring the themes of theology and religion Inspired by the many contributions made by the philosopher Joseph Kockelmans this book examines the past present and future prospects of hermeneutic phenomenology It raises key questions of truth and method as well as highlights both continental and analytic traditions of philosophy Contributors to The Multidimensionality of Hermeneutic Phenomenology include leading scholars in the field as well as new voices representing analytic philosophers of science hermeneutic and phenomenological philosophers of science scholars of comparative literature theorists of environmental studies specialists in phenomenological ethics and experts in classical hermeneutics

Reviewing **Prism And The Pendulum The Ten Most Beautiful Experiments In Science**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Prism And The Pendulum The Ten Most Beautiful Experiments In Science**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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