

EINSTEIN,
HISTORY,
AND
OTHER
PASSIONS



THE REBELLION AGAINST
SCIENCE AT THE END OF
THE TWENTIETH CENTURY

GERALD HOLTON

Einsteinhistory Other Passions

**Institute for Advanced Physics
Studies, Stefan University**



Einsteinhistory Other Passions:

Einstein, History, and Other Passions Gerald James Holton, 2000 The book makes a wonderfully cohesive whole It is rich in ideas elegantly expressed I highly recommend it to any serious student of science and culture Lucy Horwitz Boston Book Review An important and lasting contribution to a more profound understanding of the place of science in our culture Hans C von Baeyer Boston Sunday Globe Holton s themes are central to an understanding of the nature of science and Holton does an excellent job of identifying and explaining key features of the scientific enterprise both in the historical sense and in modern science I know of no better informed scientist who has studied the nature of science for half a century Ron Good Science and Education Through his rich exploration of Einstein s thought Gerald Holton shows how the best science depends on great intuitive leaps of imagination and how science is indeed the creative expression of the traditions of Western civilization

Einstein, History, And Other Passions Gerald Holton, 1996-05-07 Gerald Holton uses the life and work of our century s greatest scientist to warn against today s gathering Romantic rebellion one in which science is blamed for all our social ills and in which reason is being replaced by New Age ways of knowing Through his rich exploration of Einstein s thought the author shows how the best science depends on great intuitive leaps of imagination and how science is indeed the creative expression of the traditions of Western civilization Wide ranging and forceful this book is must reading for anyone interested in the place of science in our world

Hidden Harmony Jack R. Leibowitz, 2008-07-30 Most art and science books focus on the science of perspective or the psychology of perception Hidden Harmony does not Instead the book addresses the surprising common ground between physics and art from a novel and personal perspective Viewing the two disciplines as creative processes J R Leibowitz supplements existing and original research with illustrations to demonstrate that physics and art share guiding aesthetics and compositional demands and to show how each speaks meaningfully to the other Hidden Harmony is the first serious look at what art and physics as creative processes have in common Without assuming a background either in art or physics the author widens our experience and understanding of both domains by exploring how concepts such as balance and re balance coherence and unity and symmetry and broken symmetry affect and are affected by artistic vision and scientific principle He reveals shared themes and understandings in each field and adroitly illustrates the parallels between the strategies guiding the dabs of color and layers of images in a work of art and those guiding the assembly of physical evidence into models of the physical world Featuring examples of paintings and sculptures and complementary examples of physical concepts this contemplative work helps us see art and physics as artists and physicists do

Neutrality in Twentieth-Century Europe Rebecka Lettevall, Geert Somsen, Sven Widmalm, 2012-08-21 Whether in science or in international politics neutrality has sometimes been promoted not only as a viable political alternative but as a lofty ideal in politics by nations proclaiming their peacefulness in science as an underpinning of epistemology in journalism and other intellectual pursuits as a foundation of a professional ethos Time and again scientists and other intellectuals have

claimed their endeavors to be neutral elevated above the world of partisan conflict and power politics This volume studies the resonances between neutrality in science and culture and neutrality in politics By analyzing the activities of scientists intellectuals and politicians sometimes overlapping categories of mostly neutral nations in the First World War and after it traces how an ideology of neutralism was developed that soon was embraced by international organizations This book explores how the notion of neutrality has been used and how a neutralist discourse developed in history None of the contributions take claims of neutrality at face value some even show how they were made to advance partisan interests The concept was typically clustered with notions such as peace internationalism objectivity rationality and civilization But its meaning was changeable varying with professional ideological or national context As such Neutrality in Twentieth Century Europe presents a different perspective on the century than the story of the great belligerent powers and one in which science culture and politics are inextricably mixed

The EINSTEIN-STEFAN ENCOUNTERS:Time Hopping Travel—Transcending the Barriers of Time V. Alexander Stefan,2016-11-07 Stefan University Press Series on Thus Spoke Einstein ISSN 1550 4115 Einstein s opinions on science art and society Time Hopping Travel Transcending the Barriers of Time The imaginary conversations encounters between Albert Einstein and Vladislav Alexander Stefan The topics discussed include among others the Nature of She Time the Time Travel Modes the Human Immortality Codes and the World

Government as found in Stefan s Faustef Trilogy SURSORSAR Secret Pure Wisdom and the Open World Manifesto *The Seekers* Daniel J. Boorstin,1998-12-03 Throughout history from the time of Socrates to our own modern age the human race has sought the answers to fundamental questions of life Who are we Why are we here In his previous national bestsellers *The Discoverers* and *The Creators* Daniel J Boorstin first told brilliantly how e discovered the reality of our world and then he celebrated man s achievements in the arts He now turns to the great figures in history who sought meaning and purpose in our existence Boorstin says our Western culture has seen three grand epics of Seeking First there was the heroic way of prophets and philosophers men like Moses or Job or Socrates Plato and Aristotle as well as those in the communities of the early church universities and the Protestant Reformation seeking salvation or truth from the god above or the reason within each of us Then came an age of communal seeking with people like Thucydides and Thomas More and Machiavelli and Voltaire pursuing civilization and the liberal spirit Finally there was an age of the social sciences when man seemed ruled by the forces of history Here are the absorbing stories of exceptional men such as Marx Spengler and Toynbee Carlyle and Emerson and Malraux Bergson and Einstein These great thinkers still have the power to speak to us not always so much for their answers as for their way of asking the questions that never cease either to intrigue or to obsess us In this impressive climax to a monumental trilogy Daniel J Boorstin once again shows that his ability to present challenging ideas coupled with sharp portraits of great writers and thinkers remains unparalleled

Ethics in Engineering Practice and Research Caroline Whitbeck,1998-03-13 A real world problem centered approach to engineering ethics using case studies for students

and professionals *Regarding, Inter Alia, Albert Einstein and Mileva Marich Einstein (Stefan University Press Series on Thus Spoke Einstein; ISSN: 1550-4115) V. Alexander Stefan, 2005-12-01* Physicists around the world celebrated the year 2005 as The World Year of Physics 2005 honoring the achievements in physics research of Albert Einstein This booklet is dedicated to the World Year of Physics In this booklet I refute the claims that Mileva Marich Einstein played an important scientific role in his research Mileva Marich Einstein is of a Serb origin as am I I am a naturalized American of a Serb origin I based this presentation on the available material **Science in Culture** Stephen R. Graubard, 2018-04-27 Twenty five years ago Gerald Holton s Thematic Origins of Scientific Thought introduced a wide audience to his ideas Holton argued that from ancient times to the modern period an astonishing feature of innovative scientific work was its ability to hold simultaneously deep and opposite commitments of the most fundamental sort Over the course of Holton s career he embraced both the humanities and the sciences Given this background it is fitting that the explorations assembled in this volume reflect both individually and collectively Holton s dual roots In the opening essay Holton sums up his long engagement with Einstein and his thematic commitment to unity The next two essays address this concern In historicized form Lorraine Daston returns the question of the scientific imagination to the Enlightenment period when both sciences and art feared imagination Daston argues that the split whereby imagination was valued in the arts and loathed in the sciences is a nineteenth century divide James Ackerman on Leonardo da Vinci meshes perfectly with Daston s account showing a form of imaginative intervention where it is irrelevant to draw analogies between art and science Historians of religion Wendy Doniger and Gregory Spinner pursue the imagination into the bedroom with literary theological representations Science culture and the imagination also intersect with biologist Edward Wilson and physicist Steven Weinberg Both tackle the big question of the unity of knowledge and worldviews from a scientific perspective while art historian Ernst Gombrich does the same from the perspective of art history To emphasize the nitty gritty of scientific practice chemists Bretislav Fredrich and Dudley Herschback provide a remarkable historical tour at the boundary of chemistry and physics In the concluding essay historian of education Patricia Albjerg Graham addresses pedagogy head on In these various reflections on science art literature philosophy and education this volume gives us a view in common a deep and abiding respect for Gerald Holton s contribution to our understanding of science in culture Peter Galison is Mallinckrodt Professor of History of Science and of physics at Harvard University Stephen R Graubard is editor of the American Academy of Arts and Sciences and its journal Daedalus and professor of history emeritus at Brown University Everett Mendelsohn is director of the History of Science Program at Harvard University

The Roots of Special Relativity Peter Galison, Michael Gordin, David Kaiser, 2013-09-13 Modern science has changed every aspect of life in ways that cannot be compared to developments of previous eras This four volume set presents key developments within modern physical science and the effects of these discoveries on modern global life The first two volumes explore the history of the concept of relativity the cultural roots of science the concept of time and gravity before during and

after Einstein's theory and the cultural reception of relativity Volume 3 explores the impact of modern science upon global politics and the creation of a new kind of war and Volume 4 details the old and new efforts surrounding the elucidation of the quantum world as well as the cultural impact of particle physics This reprint collection pools the best scholarship available collected from a large array of difficult to acquire books journals and pamphlets Each volume begins with an introductory essay written by one of the top scholars in the history of science Students and scholars of modern culture science and society will find these volumes a veritable research gold mine

Science in Culture Peter Louis Galison, Stephen Richards Graubard, Everett Mendelsohn, Twenty five years ago Gerald Holton's Thematic Origins of Scientific Thought introduced a wide audience to his ideas Holton argued that from ancient times to the modern period an astonishing feature of innovative scientific work was its ability to hold simultaneously deep and opposite commitments of the most fundamental sort Over the course of Holton's career he embraced both the humanities and the sciences Given this background it is fitting that the explorations assembled in this volume reflect both individually and collectively Holton's dual roots In the opening essay Holton sums up his long engagement with Einstein and his thematic commitment to unity The next two essays address this concern In historicized form Lorraine Daston returns the question of the scientific imagination to the Enlightenment period when both sciences and art feared imagination Daston argues that the split whereby imagination was valued in the arts and loathed in the sciences is a nineteenth century divide James Ackerman on Leonardo da Vinci meshes perfectly with Daston's account showing a form of imaginative intervention where it is irrelevant to draw analogies between art and science Historians of religion Wendy Doniger and Gregory Spinner pursue the imagination into the bedroom with literary theological representations Science culture and the imagination also intersect with biologist Edward Wilson and physicist Steven Weinberg Both tackle the big question of the unity of knowledge and worldviews from a scientific perspective while art historian Ernst Gombrich does the same from the perspective of art history To emphasize the nitty gritty of scientific practice chemists Bretislav Fredrich and Dudley Herschbach provide a remarkable historical tour at the boundary of chemistry and physics In the concluding essay historian of education Patricia Albjerg Graham addresses pedagogy head on In these various reflections on science art literature philosophy and education this volume gives us a view in common a deep and abiding respect for Gerald Holton's contribution to our understanding of science in culture Peter Galison is Mallinckrodt Professor of History of Science and of physics at Harvard University Stephen R Graubard is editor of the American Academy of Arts and Sciences and its journal Daedalus and professor of history emeritus at Brown University Everett Mendelsohn is director of the History of Science Program at Harvard University

Modernist Physics Rachel Crossland, 2018-03-09 Modernist Physics takes as its focus the ideas associated with three scientific papers published by Albert Einstein in 1905 considering the dissemination of those ideas both within and beyond the scientific field and exploring the manifestation of similar ideas in the literary works of Virginia Woolf and D H Lawrence Drawing on Gillian Beer's suggestion that literature and science share

the moment's discourse Modernist Physics seeks both to combine and to distinguish between the two standard approaches within the field of literature and science direct influence and the zeitgeist The book is divided into three parts each of which focuses on the ideas associated with one of Einstein's papers Part I considers Woolf in relation to Einstein's paper on light quanta arguing that questions of duality and complementarity had a wider cultural significance in the early twentieth century than has yet been acknowledged and suggesting that Woolf can usefully be considered a complementary rather than a dualistic writer Part II looks at Lawrence's reading of at least one book on relativity in 1921 and his subsequent suggestion in *Fantasia of the Unconscious* that we are in sad need of a theory of human relativity a theory which is shown to be relevant to Lawrence's writing of relationships both before and after 1921 Part III considers Woolf and Lawrence together alongside late nineteenth and early twentieth century discussions of molecular physics and crowd psychology suggesting that Einstein's work on Brownian motion provides a useful model for thinking about individual literary characters

EINSTEIN'S REVOLUTIONARY WISDOM (Seven Last Days in the Life of Albert Einstein) A Novel V. Alexander Stefan, 2002-11-11

EINSTEIN'S REVOLUTIONARY WISDOM Seven Last Days in the Life of Albert Einstein A Novel *THUS SPOKE EINSTEIN on LIFE and LIVING* V. Alexander Stefan, 2011-11-25

THUS SPOKE EINSTEIN on LIFE and LIVING Wisdom of Albert Einstein in the Context Selected Edited and Commented by V Alexander STEFAN Institute for Advanced Physics Studies Stefan University

EINSTEIN and the WORLD: TIMELINE Institute for Advanced Physics Studies, Stefan University, 2016-12-19

Einstein's Timeline and the World Friday 11 30 a m March 14 1879 Ulm Germany Monday 1 15 a m April 18 1955 Princeton New Jersey USA Institute for Advanced Physics Studies Stefan University La Jolla California

Albert and Mileva Einstein, World Year of Physics 2005, and More V. Alexander Stefan, 2005-11-10 The World Year of Physics 2005 honors the achievements in physics research of Albert Einstein the worldwide known sad eyed genius In 1905 Albert Einstein had completed his doctoral thesis and published 4 physics papers including his Special Relativity paper The world of physics and the world in general has been since changed forever As the human race is stepping into the 3rd Millennium of the Common Era the influence of Albert Einstein is ever stronger the works of Einstein still play the major role in the further development of physics and science and technology

Einstein's Genius Club Burton Feldman, 2011-09

From the acclaimed author of *The Nobel Prize* comes this fascinating portrait of four of the greatest minds in the history of science and the impossible turning point they

The Subjectivity of Scientists and the Bayesian Approach S. James Press, Judith M. Tanur, 2016-03-16 Originally published New York John Wiley Sons Inc 2001

Andy Warhol Was a Hoarder Claudia Kalb, 2016 Was Andy Warhol a hoarder Did Einstein have autism Was Frank Lloyd Wright a narcissist In this surprising inventive and meticulously researched look at the evolution of mental health acclaimed health and science journalist Claudia Kalb gives readers a glimpse into the lives of high profile historic figures through the lens of modern psychology weaving groundbreaking research into biographical narratives that are deeply embedded in our culture From

Marilyn Monroe's borderline personality disorder to Charles Darwin's anxiety Kalb provides compelling insight into a broad range of maladies using historical records and interviews with leading mental health experts biographers sociologists and other specialists Packed with intriguing revelations this smart narrative brings a new perspective to one of the hottest new topics in today's cultural conversation

Space, Time, and Aliens Steven J. Dick, 2020-05-11 In this comprehensive and interdisciplinary volume former NASA Chief Historian Steven Dick reflects on the exploration of space astrobiology and its implications cosmic evolution astronomical institutions discovering and classifying the cosmos and the philosophy of astronomy The unifying theme of the book is the connection between cosmos and culture or what Carl Sagan many years ago called the cosmic connection As both an astronomer and historian of science Dr Dick has been both a witness to and a participant in many of the astronomical events of the last half century This collection of papers presents his reflections over the last forty years in a way accessible to historians philosophers and scientists alike From the search for alien life to ongoing space exploration efforts readers will find this volume full of engaging topics relevant to science society and our collective future on planet Earth and beyond

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