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ESSAYS ON FOUNDERS OF MODERN SCIENCE

*Rutherford Aris, Ted H. Davis,
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Springs Of Scientific Creativity Essays On Founders Of Modern Science

Carlo Cercignani



Springs Of Scientific Creativity Essays On Founders Of Modern Science:

Springs of Scientific Creativity Rutherford Aris, Roger H. Stuewer, 1983-01-01 *Springs of Scientific Creativity* Rutherford Aris, Ted Davis, Howard Ted Davis, Roger H. Stuewer, 1983 Mathematician Henri Poincaré was boarding a bus when he realized that the transformations of non Euclidean geometry were just those he needed in his research on the theory of functions He did not have to interrupt his conversation still less to verify the equation in detail his insight was complete at that point Poincaré's insight into his own creativity his awareness that preliminary cogitation and the working of the subconscious had prepared his mind for an intuitive flash of recognition is just one of many possible analyses of scientific creativity a subject as fascinating as it is elusive The authors of this book have chosen to search for the springs of scientific creativity by examining the lives and work of a dozen innovative thinkers in the fields of mathematics physics and chemistry from the seventeenth down to the mid twentieth century New Perspectives in Indian Science and Civilization Makarand R. Paranjape, 2019-08-12 This book examines key aspects of the history philosophy and culture of science in India especially as they may be comprehended in the larger idea of an Indian civilization The authors drawn from a range of disciplines discuss a wide array of issues scientism and religious dogma dialectics of faith and knowledge science under colonial conditions science and study of grammar western science and classical systems of logic metaphysics and methodology and science and spirituality in the Mahabharata This collection of essays aims to evolve a framework in which science culture and society in India may be studied fruitfully across disciplines and historical periods With its diverse themes and original approaches the book will be of interest to scholars and researchers in the fields of the history and philosophy of science science and religion cultural studies and colonial studies philosophy and history as well as India studies and South Asian studies **Critical Assembly** Lillian Hoddeson, Paul W. Henriksen, Roger A. Meade, 2004-02-12 This 1993 book explores how the critical assembly of scientists at Los Alamos created the first atomic bombs *World System History* Robert A. Denemark, Jonathan Friedman, Barry K. Gills, George Modelski, 2002-09-26 This extraordinary book presents a refreshing and innovative overview of the changes to the global system over the last 5000 years Featuring renowned contributors each specialists in their field this is the only volume to offer so coordinated a study of continuity and change in the global social economic and political system Key areas covered include International Political Economy Robert A. Denemark Archaeology Jonathan Friedman Economic development Andre Gunder Frank History George Modelski Sociology Christopher Chase Dunn **College of Science and Engineering** Thomas J. Misa, Robert W. Seidel, 2011 I was fortunate in having an instructor at the University of Minnesota who was looking after me recalled one electrical engineering graduate of 1949 When I said What's next he said If I were you I'd just go down the street here to Engineering Research Associates and I'd think you'd like what they're doing there That was Seymour Cray and his computer designs helped create a notable computer industry in the Twin Cities Another Minnesota graduate Earl Bakken class of 1948 founded Medtronic and the core of a nationally renowned

medical devices industry For 75 years the Institute of Technology now the College of Science and Engineering has pioneered in research innovation and technology transfer to Minnesota and the world The people behind this unique institution are revealed in this concise illustrated history prepared by its own team of professional historians **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 The Emergence of the American Mathematical Research Community, 1876-1900 Karen Hunger Parshall,David E. Rowe,1994 This volume traces the transformation of the United States from a mathematical backwater to a major presence during the quarter century from 1876 to 1900 Presenting a detailed study of the major figures involved in this transformation it focuses on the three most influential individuals the British algebraist James Joseph Sylvester the German standard bearer Felix Klein and the American mathematician Eliakim Hastings Moore and on the principal institutions with which they were associated the Johns Hopkins University Gottingen University and the University of Chicago This book further analyzes the research traditions these men and their institutions represented the impact they had on the second generation of American mathematical researchers and the role of the American Mathematical Society in these developments This is the first work ever written on the history of American mathematics during this period and one of the few books that examines the historical development of American mathematics from a wide perspective By placing the development of American mathematics within the context of broader external factors affecting historical events the authors show how the character of American research was decisively affected by the surrounding scientific educational and social contexts of the period Aimed at a general mathematical audience and at historians of science this book contains an abundance of unpublished archival material numerous rare photographs and an extensive bibliography Galileo Mario Livio,2020-05-05 An intriguing and accessible Publishers Weekly interpretation of the life of Galileo Galilei one of history s greatest and most fascinating scientists that sheds new light on his discoveries and how he was challenged by science deniers We really need this story now because we re living through the next chapter of

science denial Bill McKibben Galileo's story may be more relevant today than ever before At present we face enormous crises such as minimizing the dangers of climate change because the science behind these threats is erroneously questioned or ignored Galileo encountered this problem 400 years ago His discoveries based on careful observations and ingenious experiments contradicted conventional wisdom and the teachings of the church at the time Consequently in a blatant assault on freedom of thought his books were forbidden by church authorities Astrophysicist and bestselling author Mario Livio draws on his own scientific expertise and uses his gifts as a great storyteller The Washington Post to provide a refreshing perspective Booklist into how Galileo reached his bold new conclusions about the cosmos and the laws of nature A freethinker who followed the evidence wherever it led him Galileo was one of the most significant figures behind the scientific revolution He believed that every educated person should know science as well as literature and insisted on reaching the widest audience possible publishing his books in Italian rather than Latin Galileo was put on trial with his life in the balance for refusing to renounce his scientific convictions He remains a hero and inspiration to scientists and all of those who respect science which as Livio reminds us in this admirably clear and concise The Times London book remains threatened everyday [Thermodynamics: History And Philosophy - Facts, Trends, Debates](#) L Ropolyi, K Martinas, Peter Szegedi, 1991-03-22 This proceedings contains the invited and contributed papers presented at the conference on the history and foundation of classical thermodynamics It describes the alternative paradigms and histories of thermodynamics philosophical foundations and consequences and classical problems related to the history of thermodynamics The contents attempt to present a unified approach to the physical historical and philosophical points of view [Thinking Like Einstein](#) Thomas G. West, 2010-03-05 Albert Einstein once said that all of his most important and productive thinking was done by playing with images in his imagination Only in a secondary stage did he translate with great effort he says these images into the language of words and mathematics that could be understood by others According to Thomas G West Einstein was a classic example of a strong visual thinker a person who tends to think in images and visual patterns and sometimes has difficulty with words and numbers In his awarding winning book In the Mind's Eye West discussed the connections between highly talented visually oriented persons like Einstein and certain learning disabilities such as dyslexia Now in Thinking Like Einstein West investigates the new worlds of visual thinking insight and creativity made possible by computer graphics and information visualization technologies He argues that with the rapid spread of inexpensive and powerful computers we are now at the beginning of a major transition moving from an old world based mainly on words and numbers to a new world where high level work in all fields will eventually involve insights based on the display and manipulation of complex information using moving computer images West profiles several highly creative visual thinkers such as James Clerk Maxwell Nikola Tesla and Richard Feynman pointing out that there is a long history of using visualization rather than words or numbers to solve problems Citing the longstanding historical conflicts between image lovers and image haters West

examines the relationship of art scientific knowledge and differences in brain capabilities observing how modern visual thinkers with visualization technologies seem to have learned how to cut through the problems of overspecialization in academia and in the workplace West predicts that computer visualization technology will radically change the way we all work and think For thousands of years the technology of writing and reading has tended to promote the dominance of the left hemisphere of the brain with its linear processing of words and numbers Now the spread of graphical computer technologies is permitting a return to our visual roots with a new balance between hemispheres and ways of thinking presenting new opportunities for problem solving and big picture thinking Thus he argues that the newest technologies will help us to reaffirm some of our oldest capabilities allowing us to see previously unseen patterns and to restore a balance in thought and action

Ludwig Boltzmann Carlo Cercignani,2006-01-12 This book presents the life and personality the scientific and philosophical work of Ludwig Boltzmann one of the great scientists who marked the passage from 19th to 20th Century physics His rich and tragic life ending by suicide at the age of 62 is described in detail A substantial part of the book is devoted to discussing his scientific and philosophical ideas and placing them in the context of the second half of the 19th century The fact that Boltzmann was the man who did most to establish that there is a microscopic atomic structure underlying macroscopic bodies is documented as is Boltzmann s influence on modern physics especially through the work of Planck on light quanta and of Einstein on Brownian motion Boltzmann was the centre of a scientific upheaval and he has been proved right on many crucial issues He anticipated Kuhn s theory of scientific revolutions and proposed a theory of knowledge based on Darwin His basic results when properly understood can also be stated as mathematical theorems Some of these have been proved others are still at the level of likely but unproven conjectures The main text of this biography is written almost entirely without equations Mathematical appendices deepen knowledge of some technical aspects of the subject

No Truth Except in the Details A.J. Kox,D.M. Siegel,2012-12-06 Beginning with a couple of essays dealing with the experimental and mathematical foundations of physics in the work of Henry Cavendish and Joseph Fourier the volume goes on to consider the broad areas of investigation that constituted the central foci of the development of the physics discipline in the nineteenth century electricity and magnetism including especially the work of Michael Faraday William Thomson and James Clerk Maxwell and thermodynamics and matter theory including the theoretical work and legacy of Josiah Willard Gibbs some experimental work relating to thermodynamics and kinetic theory of Heinrich Hertz and the work of Felix Seyler Hoppe on hemoglobin in the neighboring field of biophysics biochemistry Moving on to the beginning of the twentieth century a set of three articles on Albert Einstein deal with his early career and various influences on his work Finally a set of historiographical issues important for the history of physics are discussed and the chronological conclusion of the volume is an article on the Solvay Conference of 1933 For physicists interested in the history of their discipline historians and philosophers of science and graduate students in these and related disciplines **Erwin Schrodinger** Michel Bitbol,O.

DARRIGOL (Ed),1992 **Nobel Laureates in Chemistry, 1901-1992** James K. Laylin,1993-10-30 Through new perspectives from a mix of original monographs biographies autobiographical memoirs edited collections of essays and documentary sources translations classic reprints and pictorial volumes this series will document the individuals ideas institutions and innovations that have created the modern chemical sciences **Philosophy of Chemistry** Andrea Woody,Robin Findlay Hendry,Paul Needham,2012 Philosophy of Chemistry investigates the foundational concepts and methods of chemistry the science of the nature of substances and their transformations This groundbreaking collection the most thorough treatment of the philosophy of chemistry ever published brings together philosophers scientists and historians to map out the central topics in the field The 33 articles address the history of the philosophy of chemistry and the philosophical importance of some central figures in the history of chemistry the nature of chemical substances central chemical concepts and methods including the chemical bond the periodic table and reaction mechanisms and chemistry s relationship to other disciplines such as physics molecular biology pharmacy and chemical engineering This volume serves as a detailed introduction for those new to the field as well as a rich source of new insights and potential research agendas for those already engaged with the philosophy of chemistry Provides a bridge between philosophy and current scientific findings Encourages multi disciplinary dialogue Covers theory and applications **The Changing Image of the Sciences** Ida H. Stamhuis,Teun Koetsier,Cornelis De Pater,Albert Van Helden,2012-12-06 The title of our book would lead the reader to believe that in speaking of the changing image of the sciences we are taking for granted the multiplicity of sciences as these are practiced for instance in modern universities That was of course not always the case Although we can point to some subjects for instance mathematical astronomy as being demarcated to some extent from other subjects as far back as Antiquity the current division into individual sciences can hardly be traced back further than the nineteenth century Moreover the further we go back in history the more we must subsume science under general knowledge or scholarship scientia Some of the earliest images of episteme or scientia are those of forbidden knowledge often related to technology on the one hand and the absent minded scholar on the other These are powerful metaphors in word as well as image that have been appropriated in various ages for different purposes The Greeks gave Western society its first images of the power of knowledge and those who produced it Prometheus ridiculed the gods stole their fire and brought it down to Earth For this Zeus had him chained to a rock on Mount Caucasus where a vulture fed on his liver during the day while it grew back at night He was finally freed by Heracles **The Advancement of Science, and Its Burdens** Gerald James Holton,1998 In questioning the scientific enterprise and its effect on the society around it this analysis of modern science has a particular emphasis on the role of thematic elements often unconscious presuppositions that guide scientific work *Science Secrets* Alberto A. Martinez,2011-05-29 Accessibly written in an engaging style this book examines classic popular stories in the history of science Some of the myths discussed include Franklin s Kite Newton s Apple and Thomson s plum pudding model

of the atom Martin successfully holds readers attention by relying on rich documentation from primary sources to debunk speculations that have become reified over time He argues that although scientists have disagreed with one another the disagreements have been productive Features includes extensive primary source documentation and detailed explanations of how to compare contradictory sources in order to determine which accounts are truly valid Provided by publisher *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

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