

Translated with an Introduction and Notes by Stillman Drake

Discoveries And Opinions Of Galileo By Galileo Galilei

Jiyuan Zhang

Discoveries And Opinions Of Galileo By Galileo Galilei:

<u>Discoveries and Opinions of Galileo</u> Galileo,1957-04-01 Directing his polemics against the pedantry of his time Galileo as his own popularizer addressed his writings to contemporary laymen His support of Copernican cosmology against the Church s strong opposition his development of a telescope and his unorthodox opinions as a philosopher of science were the central concerns of his career and the subjects of four of his most important writings Drake s introductory essay place them in their biographical and historical context

Discoveries and Opinions of Galileo. Translated With an Introd. and Notes by

Stillman Drake Galileo Galilei,1957

Discoveries and Opinions of Galileo Galileo Galilei,Stillman Drake,1957

Galileo's Logic of Discovery and Proof W. A. Wallace, 2012-12-06 This volume is presented as a companion study to my translation of Galileo s MS 27 Galileo s Logical Treatises which contains Galileo s appropriated questions on Aristotle s Posterior Analytics a work only recently transcribed from the Latin autograph Its purpose is to acquaint an English reading audience with the teaching in those treatises This is basically a sixteenth century logic of discovery and of proof about which little is known in the present day yet one that arguably guided the most significant research program of the seventeenth century Despite its historical and systematic importance the teaching is difficult to explain to the modern reader Part of the problem stems from the fragmentary nature of the manuscript in which it is preserved part from the contents of the teaching itself which requires a considerable propadeutic for its comprehension A word of explanation is thus required to set out the structure of the volume and to detail the editorial decisions that underlie its organization Two major manuscript studies have advanced the cause of scholarship on Galileo within the past two decades The first relates to Galileo s experimental activity at Padua prior to his discoveries with the telescope that led to the publication of his Sidereus nuncius in 1610 Much of this activity has been uncovered by Stillman Drake in analyses of manuscript fragments associated with the composition of Galileo s Two New Sciences fragments now bound in a codex identified as MS 72 in the collection of Galileiana at the Biblioteca Nazionale Centrale in Florence **Kopernikus** John Freely, 2015-09-10 Elegant erz hlt John Freely das wechselvolle Leben eines der bedeutendsten Gelehrten der Renaissance Dieses Buch vereinigt Biographie und spannende Wissenschaftsgeschichte Die wohl wichtigste wissenschaftliche Entdeckung der Neuzeit dass die Erde und die Planeten um die Sonne kreisen und die Erde einmal in 24 Stunden um ihre Achse rotiert verdanken wir Kopernikus 1473 1543 Er war einer der gr ten Universalgelehrten aller Zeiten Sprachwissenschaftler Rechtsanwalt Arzt Diplomat Politiker Mathematiker Naturwissenschaftler K nstler Geistlicher und Astronom Zugleich vereinigte er die Erkenntnisse der Antike der mittelalterlich islamischen Welt wie auch der neuzeitlichen Naturwissenschaften In seiner neuen Biographie schildert John Freely das bewegte Leben des Kopernikus erkl rt seine Theorien vergegenw rtigt die atemlose Epoche der fr hen Neuzeit und der Renaissance und zeigt was es hei tim Kopernikanischen Zeitalter zu leben Weltliche Predigten Alan Musgrave, 2011 English summary This collection contains 15 essays examining the basic assumptions of science religion and mathematics

Can we decide what to believe Why do scientists do experiments and what can their experiments show Is evolution a scientific theory Is science a rational enterprise Should we invent alternatives to unrefuted theories What is Einstein s influence on philosophy These and other questions are discussed in papers speeches and essays for a broader audience covering main problems in the development of science The author wants to provoke his readers to enter the now discredited belief systems of earlier ages in order to compare these with their own He thus uses the history of science to reflect on theories of science in the past and the present using critical rationalism as a tool to enrich our view of the world German description Der Band versammelt 15 Essays die vermeintlich einfachen Fragen aus den Wissenschaften und ihren Erkenntnismoglichkeiten nachgehen beispielsweise Konnen wir entscheiden was wir glauben wollen Warum experimentieren Wissenschaftler und was zeigen ihre Experimente Ist die Evolutionstheorie eine wissenschaftliche Theorie Liefern theologische Ansichten Erklarungen Wie hat Albert Einstein die Philosophie beeinflusst Die Erorterungen setzen kein Spezialistenwissen voraus sie stellen aber einige Selbstverstandlichkeiten unserer alltaglichen Weltorientierung und unseres Blicks auf die Wissenschaften in Frage indem die historischen Formen der Wissensgewinnung und kritischer Rationalitat zum Vergleich herangezogen werden Theorie und Geschichte der Wissenschaftsformen werden in diesen weltlichen Predigten auf der Grundlage kritisch rationaler Untersuchung in einen Dialog gebracht Predigten sind dies im Sinne allgemein verstandlicher Auslegung komplexer Erkenntnisse und darin dem Vorbild Karl Popper folgend **Opinions** Galileo Galilei,1959 A Brief History Of Astronomy And Astrophysics Kenneth R Lang, 2018-07-25 Our developing appreciation of the Universe is a triumph of the intelligence ingenuity and sheer hard work of the many scientists involved in this story This book gives a clear picture of how this fascinating story has evolved over the last 500 years albeit which many scientifically literature readers will enjoy Contemporary PhysicsThis book traces out the unfolding history of important discoveries in astronomy and astrophysics and anchors our present understanding of the Universe within the findings and personalities of accomplished astronomers They have used telescopes and instruments to extend our vision to places that cannot be seen with the unaided eye discovered a host of unanticipated objects found out how various parts of the night sky are related and discovered that the Universe is larger more complex and older than has been previously thought This comprehensive historical approach to the present state of astronomy is a unique aspect of the book Discoveries and opinions of Galileo, tr Galileo Galilei, Stillman Drake, Discoveries and Opinions of Galileo [sound Recording] Freeman, Ellen, narrator, Galileo Galilei, 197? Galileo's Instruments of Credit Mario Biagioli, 2007-06-01 In six short years Galileo Galilei went from being a somewhat obscure mathematics professor running a student boarding house in Padua to a star in the court of Florence to the recipient of dangerous attention from the Inquisition for his support of Copernicanism In that brief period Galileo made a series of astronomical discoveries that reshaped the debate over the physical nature of the heavens he deeply modified the practices and status of astronomy with the introduction of the telescope and pictorial

evidence proposed a radical reconfiguration of the relationship between theology and astronomy and transformed himself from university mathematician into court philosopher Galileo s Instruments of Credit proposes radical new interpretations of several key episodes of Galileo's career including his early telescopic discoveries of 1610 the dispute over sunspots and the conflict with the Holy Office over the relationship between Copernicanism and Scripture Galileo's tactics during this time shifted as rapidly as his circumstances argues Mario Biagioli and the pace of these changes forced him to respond swiftly to the opportunities and risks posed by unforeseen inventions further discoveries and the interventions of his opponents Focusing on the aspects of Galileo's scientific life that extend beyond the framework of court culture and patronage Biagioli offers a revisionist account of the different systems of exchanges communication and credibility at work in various phases of Galileo's career Galileo's Instruments of Credit will find grateful readers among scholars of science studies historical epistemology visual studies Galilean science and late Renaissance astronomy The Maunder Minimum and the Variable Sun-earth Connection Willie Soon, Steven H. Yaskell, 2003 An excursion through solar science science history and geoclimate with a husband and wife team who revealed some of our sun s most stubborn secrets God and Nature David C. Lindberg, Ronald L. Numbers, 2023-11-15 Since the publication in 1896 of Andrew Dickson White's classic History of the Warfare of Science with Theology in Christendom no comprehensive history of the subject has appeared in the English language Although many twentieth century historians have written on the relationship between Christianity and science and in the process have called into question many of White s conclusions the image of warfare lingers in the public mind To provide an up to date alternative based on the best available scholarship and written in nontechnical language the editors of this volume have assembled an international group of distinguished historians In eighteen essays prepared especially for this book these authors cover the period from the early Christian church to the twentieth century offering fresh appraisals of such encounters as the trial of Galileo the formulation of the Newtonian worldview the coming of Darwinism and the ongoing controversies over scientific creationism They explore not only the impact of religion on science but also the influence of science and religion This landmark volume promises not only to silence the persistent rumors of war between Christianity and science but also serve as the point of departure for new explorations of their relationship Scholars and general readers alike will find it provocative and readable Since the publication in 1896 of Andrew Dickson White's classic History of the Warfare of Science with Theology in Christendom no comprehensive history of the subject has appeared in the English language Although many twentieth century historians **The God Problem** Howard Bloom, 2012-08-30 God s war crimes Aristotle's sneaky tricks Einstein's pajamas information theory s blind spot Stephen Wolfram's new kind of science and six monkeys at six typewriters getting it wrong What do these have to do with the birth of a universe and with your need for meaning Everything as you re about to see How does the cosmos do something it has long been thought only gods could achieve How does an inanimate universe generate stunning new forms and unbelievable new powers without a creator How

does the cosmos create That's the central question of this book which finds clues in strange places Why A does not equal A Why one plus one does not equal two How the Greeks used kickballs to reinvent the universe And the reason that Polish born Beno t Mandelbrot the father of fractal geometry rebelled against his uncle You ll take a scientific expedition into the secret heart of a cosmos you ve never seen Not just any cosmos An electrifyingly inventive cosmos An obsessive compulsive cosmos A driven ambitious cosmos A cosmos of colossal shocks A cosmos of screaming stunning surprise A cosmos that breaks five of science's most sacred laws Yes five And you ll be rewarded with author Howard Bloom's provocative new theory of the beginning middle and end of the universe the Bloom toroidal model also known as the big bagel theory which explains two of the biggest mysteries in physics dark energy and why if antimatter and matter are created in equal amounts there is so little antimatter in this universe Called truly awesome by Nobel Prize winner Dudley Herschbach The God Problem will pull you in with the irresistible attraction of a black hole and spit you out again enlightened with the force of a big bang Be prepared to have your mind blown From the Hardcover edition Hölderlin's Dionysiac Poetry Lucas Murrey, 2014-12-08 This book casts new light on the work of the German poet Friedrich H Iderlin 1770 1843 and his translations of Greek tragedy It shows H Iderlin's poetry is unique within Western literature and art as it retrieves the socio politics of a Dionysiac space time and language to challenge the estrangement of humans from nature and one other In this book author Lucas Murrey presents a new picture of ancient Greece noting that money emerged and rapidly developed there in the sixth century B C This act of monetization brought with it a concept of tragedy money tyrants struggling against the forces of earth and community who succumb to individual isolation blindness and death As Murrey points out H lderlin unconsciously retrieves the battle between money nature and community and creatively applies its lessons to our time But H Iderlin's poetry not only adapts tragedy to question the unlimited machine process of a clever race of money tyrants It also draws attention to Greece s warnings about the mortal danger of the eyes in myth cult and theatre This monograph thus introduces an urgently needed vision not only of H Iderlin hymns but also the relevance of disciplines as diverse as Literary Studies Philosophy Psychology Psychoanalysis as well as Religious and Visual Media Studies to our present predicament where a dangerous visual culture through its support of the unlimitedness of money is harming our relation to nature and one another Here triumphs a temperament guided by ancient religion and that excavates in H lderlin's translations the central god Dionysus of Greek tragedy Lucas Murrey shares with his subject H Iderlin a vision of the Greeks as bringing something vitally important into our poor world a vision of which few classical scholars are now capable Richard Seaford author of Money and the Early Greek Mind and Dionysus Here triumphs a temperament guided by ancient religion and that excavates in H Iderlin s translations the central god Dionysus of Greek tragedy Bernhard B schenstein author of Frucht des Gewitters Zu H Iderlins Dionysos als Gott der Revolution and Paul Celan Der Meridian Lucas Murrey takes the god of tragedy Dionysus finally serious as a manifestation of the ecstatic scream of liberation and visual strategies of dissolution he pleasantly portrays H

lderlin s idiosyncratic poetic sympathy Anton Bierl author of Der Chor in der Alten Kom die Ritual and Performativit t H lderlin most surely deserved such a book Jean Fran ois Kerv gan author of Que faire de Carl Schmitt fascinating material Noam Chomsky author of Media Control and Nuclear War and Environmental Catastrophe Chasing the Sun Richard Cohen, 2011-08-04 The Sun is so powerful so much bigger than us that it is a terrifying subject Yet though we depend on it we take it for granted Amazingly the first book of its kind CHASING THE SUNis a cultural and scientific history of our relationship with the star that gives us life Richard Cohen applying the same mix of wide ranging reference and intimate detail that won outstanding reviews for By the Sword travels from the ancient Greek astronomers to modern day solar scientists from Stonehenge to Antarctica site of the solar eclipse of 2003 when penguins were said to sing Mexico s Aztecs to the Norwegian city of Tromso where for two months of the year there is no Sun at all He introduces us to the crucial sunspot cycle in modern economics the religious dances of Indian tribesmen the histories of sundials and calendars the plight of migrating birds the latest theories of global warming and Galileo recording his discoveries in code for fear of persecution And throughout there is the rich Sun literature from the writings of Homer through Dante and Nietzsche to Keats Shelley and beyond Blindingly impressive and hugely readable this is a tour de force of narrative non fiction Natural Philosophy Edward Grant, 2007-01-29 This book describes how natural philosophy and exact mathematical sciences joined together to make the Scientific Revolution possible Gaither's Dictionary of Scientific Quotations Carl C. Gaither, Alma E. Cavazos-Gaither, 2012-01-04 This unprecedented collection of 27 000 quotations is the most comprehensive and carefully researched of its kind covering all fields of science and mathematics With this vast compendium you can readily conceptualize and embrace the written images of scientists laymen politicians novelists playwrights and poets about humankind's scientific achievements Approximately 9000 high quality entries have been added to this new edition to provide a rich selection of quotations for the student the educator and the scientist who would like to introduce a presentation with a relevant quotation that provides perspective and historical background on his subject Gaither's Dictionary of Scientific Quotations Second Edition provides the finest reference source of science quotations for all audiences The new edition adds greater depth to the number of quotations in the various thematic arrangements and also provides new thematic categories

Encyclopedia of Cosmology (Routledge Revivals) Norriss S. Hetherington, 2014-04-08 The Encyclopedia of Cosmology first published in 1993 recounts the history philosophical assumptions methodological ambiguities and human struggles that have influenced the various responses to the basic questions of cosmology through the ages as well as referencing important scientific theories Just as the recognition of social conventions in other cultures can lead to a more productive perspective on our own behaviour so too a study of the cosmologies of other times and places can enable us recognise elements of our own cosmology that might otherwise pass as inevitable developments Apart from modern natural science therefore this volume incorporates brief treatments of Native American Cave Dweller Chinese Egyptian Islamic Megalithic Mesopotamian Greek

Medieval and Copernican cosmology leading to an appreciation of cosmology as an intellectual creation not merely a collection of facts It is a valuable reference tool for any student or academic with an interest in the history of science and cosmology specifically *Physical Sciences and History of Physics* Robert S. Cohen, Marx W. Wartofsky, 2012-12-06 These essays on the conceptual understanding of modern physics strike directly at some of the principal difficulties faced by contemporary philos ophers of physical science Moreover they reverberate to earlier and classical struggles with those difficulties Each of these essays may be seen as both a commentary on our predecessors and an original analytic interpretation They come from work of the past decade most from meetings of the Boston Colloquium for the Philosophy of Science and they demonstrate again how problematic the fundamentals of our understanding of nature still are The themes will seem to be familiar but the variations are not only ingenious but also stimulating in some ways counterpoint And so once again we are confronted with issues of space and time irreversibility and measurement matter and process hypothetical reality and verifiability explanation and reduction phenomenal base and sophisticated theory unified science and the unity of nature and the limits of conventionalism We are grateful for the cooperation of our contributors and in particular for the agreement of George Ellis and C F von Weizsiicker to allow us to use previously published papers

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