

Augustine To Galileo The History Of Sciencea D 400 165

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And Galileo on the World Systems Galileo Augustine to Galileo Galileo's Daughter Dialogues
Concerning Two New Sciences World History Readers Two New Sciences The Person of the
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Galileo Galilei*

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in 1633 the roman inquisition concluded the trial of galileo galilei with a condemnation for heresy the trial was itself the climax of a series of events which began two decades earlier in 1613 and included another series of inquisition proceedings in 1615 1616 besides marking the end of the controversy that defines the original episode the condemnation of 1633 also marks the beginning of another classic controversy about the galileo affair its causes its implications and its lessons about whether for example john milton was right when in the areopagitica he commented on his visit to galileo in florence by saying there it was that i found and visited the famous galileo grown old a prisoner to the inquisition for thinking in astronomy otherwise than the franciscan and dominican licensors thought i happen to be extremely interested in this second story and second controversy and a critical interpretation of the affair remains one of my ultimate goals but that is not the subject of the present work which is rather concerned with something more fundamental namely with the documentation of the original episode to be more exact the aim of this book is to provide a documentary history of the series of developments which began in 1613 and culminated in 1633 with the trial and condemnation of galileo that is it aims to provide a collection of the essential texts and documents containing information about both the key events and the key issues the documents have been translated into english from the original languages primarily italian and partly latin they have been selected are arranged annotated introduced and otherwise edited with the following guiding principles in mind to make the book as self contained as possible and to minimize contentious interpretation and evaluation the galileo affair is such a controversial and important topic that one needs a sourcebook from which to learn firsthand about the events and the issues since no adequate volume of the kind exists this work attempts to fill the lacuna the originals of the documents translated and collected here can all be found in printed sources in fact with one exception they are all contained in the twenty volumes of the national edition of galileo s works edited by antonio favaro and first published in 1890 1909 the exception is the recently discovered anonymous complaint about the assayer whose original was discovered and first published in 1983 by pietro redondi this document is also contained in the critical edition of the inquisition proceedings edited by sergio m pagano and published in 1984 by the pontifical academy of sciences my selection was affected partly by the criterion of importance insofar as i chose documents that i felt to be more or less essential since i was also influenced by the double focus of this documentary history on events and issues i therefore included two types of documents the first consists of relatively short documents which are mostly either inquisition proceedings chapters v and ix or letters chapters i vii and viii and which primarily though not exclusively record various occurrences the second type consists of longer essays by galileo chapters ii iii iv and vi which discuss many of the central scientific and philosophical issues and have intrinsic importance independent of the affair finally my goal of maximizing the autonomy of this volume suggested another reason for including some of these longer informative essays on

the scientific issues chapters iv and vi

galileo's 1632 book *Dialogue on the Two Chief World Systems* ptolemaic and copernican comes alive for twentieth century readers thanks to maurice finocchiaro's brilliant new translation and presentation condemned by the inquisition for its heretical proposition that the earth revolves around the sun galileo's masterpiece takes the form of a debate divided into four days among three highly articulate gentlemen finocchiaro sets the stage with his introduction which not only provides the human and historical framework for the dialogue but also admits the reader gracefully into the basic non copernican understanding of the universe that would have been shared by galileo's original audience the translation of the dialogue is abridged in order to highlight its essential content and finocchiaro gives titles to the various parts of the debate as a guide to the principal topics by explicating his own critical reading of this text that is itself an exercise in critical reasoning on a gripping real life controversy he illuminates those universal perennial activities of the human mind that make galileo's book a living document this is a concrete hands on introduction to critical thinking the translation has been made from the italian text provided in volume 7 of the critical national edition of galileo's complete works edited by antonio favaro the translator has also consulted the 1632 edition as well as the other previous english translations including california's 1967 version *Galileo on the World Systems* is a remarkably nuanced interpretation of a classic work and will give readers the tools to understand and evaluate for themselves one of the most influential scientific books in western civilization

discusses the childhood education interests and inventions of galileo as well as how his studies led to conflict with the catholic church

inspired by a long fascination with galileo and by the remarkable surviving letters of galileo's daughter a cloistered nun dava sobel has written a biography unlike any other of the man albert einstein called the father of modern physics indeed of modern science altogether galileo's daughter also presents a stunning portrait of a person hitherto lost to history described by her father as a woman of exquisite mind singular goodness and most tenderly attached to me galileo's daughter dramatically recolors the personality and accomplishment of a mythic figure whose seventeenth century clash with catholic doctrine continues to define the schism between science and religion moving between galileo's grand public life and maria celeste's sequestered world sobel illuminates the florence of the medicis and the papal court in rome during the pivotal era when humanity's perception of its place in the cosmos was about to be overturned in that same time while the bubonic plague wreaked its terrible devastation and the thirty years war tipped fortunes across europe one man sought to reconcile the heaven he revered as a good catholic with the heavens he revealed through his telescope with all the human drama and scientific adventure that distinguished dava sobel's previous book *Longitude* galileo's daughter is an

unforgettable story

galileo's groundbreaking dialogues are a summation of three decades of scientific work he had undertaken in the fledgling field of physics this edition includes the diagrams crucial for understanding the text writing these dialogues in 1638 the elderly galileo had a life of achievements behind him despite attempts at suppression of his writings by the roman inquisition his ideas were successfully communicated across europe the motion of objects and resistance to such motion the concept of velocity and the laws of gravity are merely a few of the topics covered in these detailed dialogues at the outset we are introduced to the three conversation partners salviati sagredo and simplicio these three venetians embark on a scientific discussion hoping to explain the curiosities of things such as speed and movement over the course of four days their meetings grow in complexity and scope as they strive to explain physical phenomena later we encounter many propositions and theorems concerning a wide variety of subjects these represent the sum of galileo's progress in understanding gravity motion resistance acceleration velocity and the behavior of material structures the two new sciences referred to by the title are the nature of materials and the motion of objects a total of 130 illustrations and charts populate this text for the most part they are situated adjacent to their respective proposition or theorem in many of the more complex explanations they are important in aiding the reader to grasp what galileo means through absorbing these wide ranging investigations we may appreciate the justness of galileo's moniker the father of modern physics this edition's translation to english is by alfonso de salvio and henry crew the former was an expert on the technical aspects of the italian language while the latter was a longstanding scholar of physics with much experience teaching in the field

galileo's pioneering use of the telescope showed that the earth is not at the center of the universe and led to his trial and conviction by the inquisition this first clash between science and religion still bedevils us today in many ways galileo however made an even greater contribution to history when in destroying medieval science and discovering the laws of motion he established the procedure of modern science as a direct result of his work revelation and scripture as sources of truth are replaced by experimentation and measurement while tradition and authority as interpreters of truth are replaced by individualism and egalitarianism this tremendous alteration in the scientific process eventually swept through all non scientific disciplines and created the modern world a good case can therefore be made that galileo is the most influential person in history even if one does not agree with the conclusion tracing this dramatic change is one of the most exciting of intellectual adventures interesting argues well insightful and well written recommended choice march 2006 1246 however controversial manfred weidhorn's supporting thesis dovetails with a fruitful trend of extending the controversy on science and religion centered on galileo in a direction accounting for its impact on civilization not just for galileo's troubles with theologians and philosophers the person of the millennium insightfully identifies a paradigm shift

of history with the galilean revolution generally meritorious work thought provoking and worthwhile reading perspectives on science and christian faith 59 2 june 2007 155 this is a very sweeping thesis involving grand theorizing in the style of the old philosophy of history however weidhorn s argument is nuanced and sophisticated whether or not one values this type of grand theorizing and whether or not one completely accepts the thesis weidhorn has constructed a supporting argument that is eloquent intelligent cogent and sometimes original and has written a well argued thoughtful and thought provoking book maurice a finocchiaro galileo scholar the historian 69 3 fall 2007 602

galileo s dialogue concerning the two chief world systems published in florence in 1632 was the most proximate cause of his being brought to trial before the inquisition using the dialogue form a genre common in classical philosophical works galileo masterfully demonstrates the truth of the copernican system over the ptolemaic one proving for the first time that the earth revolves around the sun its influence is incalculable the dialogue is not only one of the most important scientific treatises ever written but a work of supreme clarity and accessibility remaining as readable now as when it was first published this edition uses the definitive text established by the university of california press in stillman drake s translation and includes a foreword by albert einstein and a new introduction by j l heilbron

rich illuminating study of the western scientific tradition from the collapse of the roman empire to the scientific revolution in the 17th century over 60 illus bibliography

galileo galilei s contributions to modern science were so fundamental to a variety of fields that even though he died almost 400 years ago his name retains international acclaim

when galileo lifted off from kennedy space center on 18 october 1989 it began an interplanetary voyage that took it to venus two asteroids back to earth and finally on to jupiter the craft s instruments studied jupiter s enormous magnetosphere and its belts of intense radiation the spacecraft also sent off a planetary probe that accomplished the most difficult atmospheric entry ever attempted after this the craft spent years visiting jupiter s moons and delving into their structures and properties this book attempts to convey the creativity leadership and vision that were necessary for the mission s success it is a book about dedicated people and their scientific and engineering achievements the galileo mission faced many significant problems some of the most brilliant accomplishments and work arounds such as problems with the high gain antenna of the galileo staff occurred precisely when these challenges arose throughout the mission engineers and scientists found ways to keep the spacecraft operational from a distance of nearly half a billion miles enabling one of the most impressive voyages of scientific discovery

this book aims to make galileo galilei 1564 1642 accessible to the modern reader by refashioning

the great scientist's masterpiece discourses and mathematical demonstrations relating to two new sciences in today's language galileo galilei stands as one of the most important figures in history not simply for his achievements in astronomy physics and engineering and for revolutionizing science and the scientific method in general but also for the role that he played in the still ongoing drama concerning entrenched power and its desire to stifle any knowledge that may threaten it therefore it is important that today's readers come to understand and appreciate what galilei accomplished and wrote but the mindset that shapes how we see the world today is quite different from the mindset and language of galilei and his contemporaries another obstacle to a full understanding of galilei's writings is posed by the countless historical philosophical geometrical and linguistic references he made along with his often florid prose with its blend of italian and latin de angelis new rendition of the work includes translations of the original geometrical figures into algebraic formulae in modern notation and allows the non specialist reader to follow the thread of galileo's thought and in a way that was barely possible until now

as enjoyable as it is important this classic encompasses 30 years of highly original experiments and theories its lively expositions discuss dynamics elasticity sound strength of materials and more 126 diagrams

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