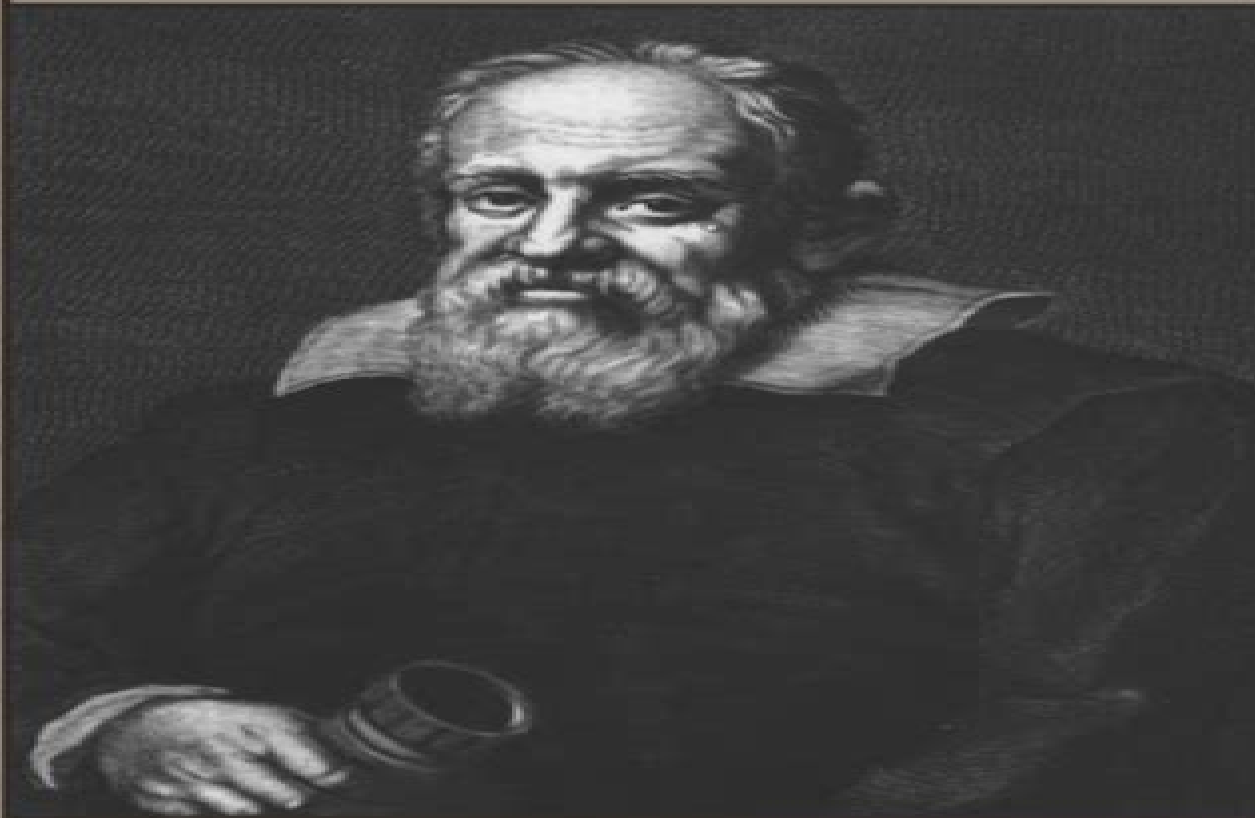


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E. Agazzi, M. Pauri



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founding figure of the history and philosophy of science Prefaced by an introduction on Duhem's intellectual development and continuing significance here as well are important subsequent essays in which Duhem elaborated key concepts and critiqued such contemporaries as Henri Poincaré and Ernst Mach Together these works offer a lively picture of the state of science at the turn of the century while addressing methodological issues that remain at the center of debate today

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intellectual shift from a mainly abstract and speculative conception of the world to a carefully elaborated image based on observations. There is some grain of truth in this claim but this grain depends very much on what one takes observation to be. In the philosophy of science of our century observation has been practically equated with sense perception. This is understandable if we think of the attitude of radical empiricism that inspired Ernst Mach and the philosophers of the Vienna Circle who powerfully influenced our century's philosophy of science. However this was not the attitude of the founders of modern science. Galileo for example expressed in a famous passage of the *Assayer* the conviction that perceptual features of the world are merely subjective and are produced in the anima by the motion and impacts of unobservable particles that are endowed uniquely with mathematically expressible properties and which are therefore the real features of the world. Moreover on other occasions when defending the Copernican theory he explicitly remarked that in admitting that the Sun is static and the Earth turns on its own axis reason must do violence to the sense and that it is thanks to this violence that one can know the true constitution of the universe. Meanest Foundations and Nobler Superstructures Ofer Gal, 2013-11-11

This book is a historical epistemological study of one of the most consequential breakthroughs in the history of celestial mechanics. Robert Hooke's 1635-1703 proposal to compound the celestial motions of the planets of a direct motion by the tangent and an attractive motion towards a central body. Newton. *The Correspondence* li 297. Henceforth *Correspondence*. This is the challenge Hooke presented to Isaac Newton 1642-1727 in a short but intense correspondence in the winter of 1679-80 which set Newton on course for his 1687 *Principia* transforming the very concept of the planetary heavens in the process. Herivel 301. *De Motu* Version III 1. It is difficult to overstate the novelty of Hooke's Programme. The celestial motions it suggested those proverbial symbols of stability and immutability were in fact a process of continuous change: a deflection of the planets from original rectilinear paths by a central attractive power. *Correspondence* li 313. There was nothing necessary or essential in the shape of planetary orbits. Already known to be not circular nor concentric. *ibid*. Hooke claimed that these apparently closed curves should be understood and calculated as mere effects of rectilinear motions and rectilinear attraction. And as Newton was quick to realize this also implied that the planets neither move exactly in ellipse nor revolve twice in the same orbit so that there are as many orbits to a planet as it has revolutions. Herivel 301. *De Motu* Version III.

Quantifiers: Logics, Models and Computation Michal Krynicki, M. Mostowski, L.W. Szczerba, 2013-04-09. *Quantifiers Logics Models and Computation* is the first concentrated effort to give a systematic presentation of the main research results on the subject since the modern concept was formulated in the late 50s and early 60s. The majority of the papers are in the nature of a handbook. All of them are self-contained at various levels of difficulty. The Introduction surveys the main ideas and problems encountered in the logical investigation of quantifiers. The Prologue written by Per Lindström presents the early history of the concept of generalised quantifiers. The volume then continues with a series of papers surveying various research areas particularly those that are of current interest. Together they provide introductions to the subject from the points of view of

mathematics linguistics and theoretical computer science The present volume has been prepared in parallel with Quantifiers Logics Models and Computation Volume Two Contributions which contains a collection of research papers on the subject in areas that are too fresh to be summarised The two volumes are complementary For logicians mathematicians philosophers linguists and computer scientists Suitable as a text for advanced undergraduate and graduate specialised courses in logic

Real Numbers, Generalizations of the Reals, and Theories of Continua P. Ehrlich, 2013-06-29 Since their appearance in the late 19th century the Cantor Dedekind theory of real numbers and philosophy of the continuum have emerged as pillars of standard mathematical philosophy On the other hand this period also witnessed the emergence of a variety of alternative theories of real numbers and corresponding theories of continua as well as non Archimedean geometry non standard analysis and a number of important generalizations of the system of real numbers some of which have been described as arithmetic continua of one type or another With the exception of E W Hobson s essay which is concerned with the ideas of Cantor and Dedekind and their reception at the turn of the century the papers in the present collection are either concerned with or are contributions to the latter groups of studies All the contributors are outstanding authorities in their respective fields and the essays which are directed to historians and philosophers of mathematics as well as to mathematicians who are concerned with the foundations of their subject are preceded by a lengthy historical introduction

Time: A Philosophical Analysis T. Chapman, 2012-12-06 This book is intended as an exposition of a particular theory of time in the sense of an interrelated set of attempted solutions to philosophical problems about it Generally speaking there are two views about time held by philosophers and some scientists interested in philosophical issues The first called the A theory after McTaggart s expression A determinations for the properties of being past present or future is often thought to be closer to our commonsense view of time or to the concept of time presupposed by ordinary language It includes at least the following theses a Logic ought really to include tensed quantifiers for existence on one of its important usages means present existence More generally we can t reduce all tensed locutions to tenseless ones b The distinction between past present and future is an objective one It is not for example dependent on our consciousness of change some A theorists hold also that the distinction in effect is an absolute one Creational Theology and the History of Physical Science: The Creationist Tradition from Basil to Bohr Christopher B. Kaiser, 2021-12-06 This volume documents the role of creational theology in discussions of natural philosophy medicine and technology from the Hellenistic period to the early twentieth century Four principal themes are the comprehensibility of the world the unity of heaven and earth the relative autonomy of nature and the ministry of healing Successive chapters focus on Greco Roman science medieval Aristotelianism early modern science the heritage of Isaac Newton and post Newtonian mechanics The volume will interest historians of science and historians of the idea of creation It simultaneously details the persistence of tradition and the emergence of modernity and provides the historical background for later discussions of creation and evolution The Evolutionary Biology Papers of Elie Metchnikoff H.

Gourko,D. Williamson,A.I. Tauber,2013-04-17 Elie Metchnikoff 1845 1916 winner of the Nobel Prize in 1907 for his contributions to immunology was first a comparative zoologist who working in the wake of Darwin's *On the Origin of Species* made seminal contributions to evolutionary biology His work in comparative embryology is best known in regard to the debates with Ernst Haeckel concerning animal genealogical relationships and the theoretical origins of metazoans But independent of those polemics Metchnikoff developed his phagocytosis theory of immunity as a result of his early comparative embryology research and only in examining the full breadth of his work do we appreciate his signal originality Metchnikoff's scientific papers have remained largely untranslated into English Assembled here annotated and edited are the key evolutionary biology papers dating from Metchnikoff's earliest writings 1865 to the texts of his mature period of the 1890s which will serve as an invaluable resource for those interested in the historical development of evolutionary biology

Galileo's Logical Treatises W. A. Wallace,2012-12-06 Hard as it is to believe what is possibly Galileo's most important Latin manuscript was not transcribed for the National Edition of his works and so has remained hidden from scholars for centuries In this volume William A Wallace translates the logical treatises contained in that manuscript and makes them intelligible to the modern reader He prefaces his translation with a lengthy introduction describing the contents of the manuscript the sources from which it derives its dating and how it relates to Galileo's other Pisan writings The translation is accompanied by extensive notes and commentary these explain the text and tie it to the fuller exposition of Galileo's logical methodology in the author's companion volume *Galileo's Logic of Discovery and Proof* The result is a research tool that is indispensable for anyone intent on understanding Galileo's logic as described in that volume and the documentary evidence on which it is based [The Reception of the Galilean Science of Motion in Seventeenth-Century Europe](#) Carla Rita Palmerino,J.M.M.H. Thijssen,2013-03-20 This book collects contributions by some of the leading scholars working on seventeenth century mechanics and the mechanical philosophy Together the articles provide a broad and accurate picture of the fortune of Galileo's theory of motion in Europe and of the various physical mathematical and ontological arguments that were used in favour and against it Were Galileo's contemporaries really aware of what Westfall has described as the incompatibility between the demands of mathematical mechanics and the needs of mechanical philosophy To what extent did Galileo's silence concerning the cause of free fall impede the acceptance of his theory of motion Which methods were used before the invention of the infinitesimal calculus to check the validity of Galileo's laws of free fall and of parabolic motion And what sort of experiments were invoked in favour or against these laws These and related questions are addressed in this volume *Prelude to Galileo* W. A. Wallace,2012-12-06 Can it be true that Galilean studies will be without end without conclusion that each interpreter will find his own Galileo William A Wallace seems to have a historical grasp which will have to be matched by any further workers he sees directly into Galileo's primary epoch of intellectual formation the sixteenth century In this volume Wallace provides the companion to his splendid annotated translation of Galileo's *Early Notebooks*

The Physical Questions University of Notre Dame Press 1977 pointing to the realist sources mainly unearthed by the author himself during the past two decades Explicit controversy arises for the issues are serious nominalism and realism two early rivals for the foundation of knowledge contend at the birth of modern science Or better yet contend in our modern efforts to understand that birth Related to this continuity and discontinuity so opposed to each other are interwoven in the interpretive writings ever since those striking works of Duhem in the first years of this century and the later studies of Annaliese Maier Alexandre Koyre and E A Moody Historiographer as well as philosopher W. U. Vace has critically supported the continuity of scientific development without abandoning the revolutionary transformative achievement of Galileo's labors That continuity had its contemporary as well as developmental quality and we note that William Wallace's Prelude studies are complementary to Maurice A

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