

1. Record Nr.	UNINA9910451472503321
Autore	Schemmel Matthias
Titolo	The English Galileo [[electronic resource]] : Thomas Harriot's work on motion as an example of Preclassical mechanics // by Matthias Schemmel; edited by Robert S. Cohen, Jrgen Renn, Kostas Gavroglu
Pubbl/distr/stampa	Dordrecht, : Springer, 2008
ISBN	1-281-90416-3 9786611904166 1-4020-5499-8
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (763 p.)
Collana	Boston studies in the philosophy of science ; ; v. 268
Altri autori (Persone)	CohenRobert S GavroglouKostas RennJrgen
Disciplina	531.11
Soggetti	Scientists - Great Britain Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 363-374) and indexes.
Nota di contenuto	Harriot's Work on Motion in Context -- Thomas Harriot: Practical Mathematician and Pioneer of Modern Science -- Harriot and the Challenge of Projectile Motion -- An Introduction to Harriot's Manuscripts on Motion -- Major Strands of Harriot's Work on Motion -- Mathematical Analysis of the Motion of Fall -- Free Fall Experiments and Their Evaluation: The "Weight" of Falling Bodies -- Free Fall Experiments and Their Evaluation: Motion in a Medium -- Graphical Construction of Projectile Trajectories -- Exploration of the Inclined-Plane Conception of Projectile Motion -- Conclusion -- Shared Knowledge and Alternative Solutions in Harriot's and Galileo's Work on Motion -- Facsimile and Transcription -- Notes and Conventions -- Thomas Harriot's Notes on Projectile Motion and the Fall of Bodies.
Sommario/riassunto	The short series The Historical Epistemology of Mechanics presents the long-term development of mechanical knowledge. The books in this series combine the presentation of a broad selection of relevant sources with in-depth analyses of the long-term development of mechanical knowledge focusing on the early modern period. This series

is conceived in analogy to the four-volume series on The Genesis of General Relativity (BSPS 250). The English Galileo, the first book in this series, investigates the shared knowledge of preclassical mechanics by relating the work of Thomas Harriot on motion, documented by a wealth of manuscripts, to that of Galileo and other contemporaries. Harriot and Galileo indeed exploited the same shared knowledge resources in order to approach the same challenging objects. While the paths Harriot traces through the shared knowledge are different from Galileo's, the work of the two scientists displays striking similarities as regards their achievements as well as the problems they were unable to solve. The study of Harriot's parallel work thus allows the exploration of the structure of the shared knowledge of early modern mechanics, to perceive possible alternative histories, and to distinguish between individual peculiarities and shared structures of early modern mechanical reasoning. This study has received two distinguished awards, the Junior Scholar Award of the Georg Agricola Society and the Georg Uschmann Award of the German National Academy of Sciences, Leopoldina.
