

1. Record Nr.	UNINA9910970208703321
Autore	Peterson Mark A. <1946->
Titolo	Galileo's muse : Renaissance mathematics and the arts / / Mark A. Peterson
Pubbl/distr/stampa	Cambridge, Mass., : Harvard University Press, 2011
ISBN	9780674062979 0674062973
Edizione	[1st ed.]
Descrizione fisica	1 online resource (345 p.)
Classificazione	SG 555
Disciplina	709.02/4
Soggetti	Arts, Renaissance - Italy Mathematics - Italy - History Science and the arts - Italy - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Galileo, humanist -- The classical legacy -- Poetry -- The plan of heaven -- The vision of God -- Painting -- The power of the lines -- The skin of the lion -- Music -- The Orphic mystery -- Kepler and the music of the spheres -- Architecture -- Figure and form -- The dimensions of hell -- Mathematics old and new -- Transforming mathematics -- The oration.
Sommario/riassunto	Mark Peterson makes an extraordinary claim in this fascinating book focused around the life and thought of Galileo: it was the mathematics of Renaissance arts, not Renaissance sciences, that became modern science. Galileo's Muse argues that painters, poets, musicians, and architects brought about a scientific revolution that eluded the philosopher-scientists of the day, steeped as they were in a medieval cosmos and its underlying philosophy. According to Peterson, the recovery of classical science owes much to the Renaissance artists who first turned to Greek sources for inspiration and instruction. Chapters devoted to their insights into mathematics, ranging from perspective in painting to tuning in music, are interspersed with chapters about Galileo's own life and work. Himself an artist turned scientist and an avid student of Hellenistic culture, Galileo pulled together the many threads of his artistic and classical education in designing

unprecedented experiments to unlock the secrets of nature. In the last chapter, Peterson draws our attention to the *Oratio de Mathematicae laudibus* of 1627, delivered by one of Galileo's students. This document, Peterson argues, was penned in part by Galileo himself, as an expression of his understanding of the universality of mathematics in art and nature. It is "entirely Galilean in so many details that even if it is derivative, it must represent his thought," Peterson writes. An intellectual adventure, *Galileo's Muse* offers surprising ideas that will capture the imagination of anyone—scientist, mathematician, history buff, lover of literature, or artist—who cares about the humanistic roots of modern science.
