1. Record Nr. UNINA9910254214903321

Titolo	Distinguished Figures in Descriptive Geometry and Its Applications for Mechanism Science : From the Middle Ages to the 17th Century / / edited by Michela Cigola
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-20197-2
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (253 p.)
Collana	History of Mechanism and Machine Science, , 1875-3442 ; ; 30
Disciplina	620
Soggetti	Mechanical engineering Architecture Mathematics History Mechanical Engineering Architectural History and Theory Mathematics in Art and Architecture History of Science
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.
Nota di contenuto	Preface, by Marco Ceccarelli -- Introduction, by Michela Cigola -- Gerbert of Aurillac (c. 940-1003), by Carlo Bianchini and Luca J. Senatore -- Francesco Feliciano De Scolari (1470-1542), by Arturo Gallozzi -- Niccolò Tartaglia (c. 1550-1557), by Alfonso Ippolito and Cristiana Bartolomei -- Federico Commandino (1509-1575), by Ornella Zerlenga -- Egnazio Danti (1536-1586), by Mario Centofanti -- Guidobaldo Del Monte (1545-1607), by Barbara Aterini -- Giovan Battista Aleotti (1546-1636), by Fabrizio I. Apollonio -- Giovanni Pomodoro (XVI century), by Stefano Brusaporci -- Jacques Ozanam (1640-1718), by Cristina Càndito.
Sommario/riassunto	This book consists of chapters that focus specifically on single figures that worked on Descriptive Geometry and also in Mechanisms Sciences and contain biographical notes, a survey of their work and their achievements, together with a modern interpretation of their legacy.

Since Vitruvius in ancient times, and with Brunelleschi in the Renaissance, the two disciplines began to share a common direction which, over the centuries, took shape through less well-known figures until the more recent times in which Gaspard Monge worked. Over the years, a gap has been created between Descriptive Geometry and Mechanism Science, which now appear to belong to different worlds. In reality, however, there is a very close relationship between the two disciplines, with a link based on extremely solid foundations. Without the theoretical foundations of Geometry it would not be possible to draw and design mechanical parts such as gears, while in Kinematics it would be less easy to design and predict the reciprocal movements of parts in a complex mechanical assembly.