

# The Geometrical Work of Girard Desargues

J.V. Field and J.J. Gray



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# The Geometrical Work Of Girard Desargues

**Claire Farago**



## **The Geometrical Work Of Girard Desargues:**

*The Geometrical Work of Girard Desargues* J. V. Field, Jeremy Gray, 2012-12-06 Our main purpose in this book is to present an English translation of Desargues Rough Draft of an Essay on the results of taking plane sections of a cone 1639 the pamphlet with which the modern study of projective geometry began Despite its acknowledged importance in the history of mathematics the work has never been translated before in its entirety although short extracts have appeared in several source books The problems of making Desargues work accessible to modern mathematicians and historians of mathematics have led us to provide a fairly elaborate introduction and to include translations of other relevant works The translation of the Rough Draft on Conics as we shall call it thus appears in Chapter VI the five preceding chapters forming an introduction and the three following ones giving translations of other works by Desargues Chapter I briefly reviews parts of ancient geometrical works available to Desargues which seem to be relevant to his own work namely theorems in Euclid's Elements the first four books of Apollonius Conics and some remarks by Pappus in his Collection These Hellenistic works belong to the high mathematical tradition whose development has been the main theme of all histories of mathematics It is from these works that Desargues took the theorems whose theory he was to reformulate in the Rough Draft on Conics

*The Geometrical Work of Girard Desargues* Judith V Field, Jeremy Gray, 1986-12-22

**Ibn al-Haytham's Geometrical Methods and the Philosophy of Mathematics** Roshdi Rashed, 2017-07-20 This fifth volume of A History of Arabic Sciences and Mathematics is complemented by four preceding volumes which focused on the main chapters of classical mathematics infinitesimal geometry theory of conics and its applications spherical geometry mathematical astronomy etc This book includes seven main works of Ibn al Haytham Alhazen and of two of his predecessors Thabit ibn Qurra and al Sijz The circle its transformations and its properties Analysis and synthesis the founding of analytical art A new mathematical discipline the Knowns The geometrisation of place Analysis and synthesis examples of the geometry of triangles Axiomatic method and invention Thabit ibn Qurra The idea of an Ars Inveniendi al Sijz Including extensive commentary from one of the world's foremost authorities on the subject this fundamental text is essential reading for historians and mathematicians at the most advanced levels of research

**Geometry and Monadology** Vincenzo de Risi, 2007-08-08 This book reconstructs from both historical and theoretical points of view Leibniz's geometrical studies focusing in particular on the research Leibniz carried out in his final years The work's main purpose is to offer a better understanding of the philosophy of space and in general of the mature Leibnizean metaphysics This is the first ever comprehensive historical reconstruction of Leibniz's geometry

Research in History and Philosophy of Mathematics Maria Zack, Dirk Schlimm, 2020-01-02 This volume contains ten papers that have been collected by the Canadian Society for History and Philosophy of Mathematics Soci t  canadienne d'histoire et de philosophie des math matiques It showcases rigorously reviewed contemporary scholarship on an interesting variety of topics in the history and philosophy of mathematics from the seventeenth century to the modern era The volume

begins with an exposition of the life and work of Professor Bolesław Sobociński. It then moves on to cover a collection of topics about twentieth century philosophy of mathematics including Fred Sommers's creation of Traditional Formal Logic and Alexander Grothendieck's work as a starting point for discussing analogies between commutative algebra and algebraic geometry. Continuing the focus on the philosophy of mathematics, the next selections discuss the mathematization of biology and address the study of numerical cognition. The volume then moves to discussing various aspects of mathematics education including Charles Davies's early book on the teaching of mathematics and the use of Gaussian Lemniscates in the classroom. A collection of papers on the history of mathematics in the nineteenth century closes out the volume presenting a discussion of Gauss's *Allgemeine Theorie des Erdmagnetismus* and a comparison of the geometric works of Desargues and La Hire. Written by leading scholars in the field, these papers are accessible not only to mathematicians and students of the history and philosophy of mathematics but also to anyone with a general interest in mathematics.

Measure of a Different Greatness Anne Davenport, 2021-10-11 This volume examines a selection of late medieval works devoted to the intensive infinite in order to draw a comprehensive picture of the context, character and importance of scholastic efforts to reason philosophically about divine infinity. As Dominican masters face Franciscan spirituals and as university trained theologians face evangelical laymen, the purpose and meaning of divine infinity shift, reflecting a basic tension between the Church's Petrine vocation for geopolitical orthodoxy and its more Pauline mission to promote Christian orthopraxis. The first part of the book traces the scholastic defense of divine infinity from the holocaust of Montségur up to John Duns Scotus. The second part examines the semiotic breakthrough initiated by William of Ockham and the subsequent penetration of infinitist theory into a wide variety of disciplines.

**Learn from the Masters!** Frank Swetz, 1995 This book is for high school and college teachers who want to know how they can use the history of mathematics as a pedagogical tool to help their students construct their own knowledge of mathematics. Often a historical development of a particular topic is the best way to present a mathematical topic, but teachers may not have the time to do the research needed to present the material. This book provides its readers with historical ideas and insights which can be immediately applied in the classroom. The book is divided into two sections: the first on the use of history in high school mathematics and the second on its use in university mathematics. The articles are diverse, covering fields such as trigonometry, mathematical modeling, calculus, linear algebra, vector analysis and celestial mechanics. Also included are articles of a somewhat philosophical nature which give general ideas on why history should be used in teaching and how it can be used in various special kinds of courses. Each article contains a bibliography to guide the reader to further reading on the subject.

The Eye of War Antoine Bousquet, 2018-10-09 How perceptual technologies have shaped the history of war from the Renaissance to the present. From ubiquitous surveillance to drone strikes that put warheads onto foreheads, we live in a world of globalized, individualized targeting. The perils are great. In *The Eye of War*, Antoine Bousquet provides both a sweeping historical overview of military perception technologies and a disquieting lens on

a world that is increasingly one in which anything or anyone that can be perceived can be destroyed in which to see is to destroy Arguing that modern day global targeting is dissolving the conventionally bounded spaces of armed conflict Bousquet shows that over several centuries a logistical order of militarized perception has come into ascendancy bringing perception and annihilation into ever closer alignment The efforts deployed to evade this deadly visibility have correspondingly intensified yielding practices of radical concealment that presage a wholesale disappearance of the customary space of the battlefield Beginning with the Renaissance's fateful discovery of linear perspective The Eye of War discloses the entanglement of the sciences and techniques of perception representation and localization in the modern era amid the perpetual quest for military superiority In a survey that ranges from the telescope aerial photograph and gridded map to radar digital imaging and the geographic information system Bousquet shows how successive technological systems have profoundly shaped the history of warfare and the experience of soldiering A work of grand historical sweep and remarkable analytical power The Eye of War explores the implications of militarized perception for the character of war in the twenty first century and the place of human subjects within its increasingly technical armature **How Many Zeroes?** Pinaki Mondal, 2021-11-07

This graduate textbook presents an approach through toric geometry to the problem of estimating the isolated solutions counted with appropriate multiplicity of  $n$  polynomial equations in  $n$  variables over an algebraically closed field The text collects and synthesizes a number of works on Bernstein's theorem of counting solutions of generic systems ultimately presenting the theorem commentary and extensions in a comprehensive and coherent manner It begins with Bernstein's original theorem expressing solutions of generic systems in terms of the mixed volume of their Newton polytopes including complete proofs of its recent extension to affine space and some applications to open problems The text also applies the developed techniques to derive and generalize Kushnirenko's results on Milnor numbers of hypersurface singularities which has served as a precursor to the development of toric geometry Ultimately the book aims to present material in an elementary format developing all necessary algebraic geometry to provide a truly accessible overview suitable to second year graduate students *The Poetics of Perspective* James Elkins, 2018-10-18

Perspective has been a divided subject orphaned among various disciplines from philosophy to gardening In the first book to bring together recent thinking on perspective from such fields as art history literary theory aesthetics psychology and the history of mathematics James Elkins leads us to a new understanding of how we talk about pictures Elkins provides an abundantly illustrated history of the theory and practice of perspective Looking at key texts from the Renaissance to the present he traces a fundamental historical change that took place in the way in which perspective was conceptualized first a technique for constructing pictures it slowly became a metaphor for subjectivity That gradual transformation he observes has led to the rifts that today separate those who understand perspective as a historical or formal property of pictures from those who see it as a linguistic cognitive or epistemological metaphor Elkins considers how the principal concepts of perspective have been rewritten in

work by Erwin Panofsky Hubert Damisch Martin Jay Paul Ricoeur Jacques Lacan Maurice Merleau Ponty and E H Gombrich The Poetics of Perspective illustrates that perspective is an unusual kind of subject it exists as a coherent idea but no one discipline offers an adequate exposition of it Rather than presenting perspective as a resonant metaphor for subjectivity a painter's tool without meaning a disused historical practice or a model for vision and representation Elkins proposes a comprehensive revaluation The perspective he describes is at once a series of specific pictorial decisions and a powerful figure for our knowledge of the world

The Good Life in the Scientific Revolution Matthew L. Jones, 2008-09-15 Amid the unrest dislocation and uncertainty of seventeenth century Europe readers seeking consolation and assurance turned to philosophical and scientific books that offered ways of conquering fears and training the mind guidance for living a good life The Good Life in the Scientific Revolution presents a triptych showing how three key early modern scientists Ren Descartes Blaise Pascal and Gottfried Leibniz envisioned their new work as useful for cultivating virtue and for pursuing a good life Their scientific and philosophical innovations stemmed in part from their understanding of mathematics and science as cognitive and spiritual exercises that could create a truer mental and spiritual nobility In portraying the rich contexts surrounding Descartes geometry Pascal's arithmetical triangle and Leibniz's calculus Matthew L Jones argues that this drive for moral therapeutics guided important developments of early modern philosophy and the Scientific Revolution

Hegel and Schelling in Early Nineteenth-Century France Kirill Chepurin, Adi Eyal-Lautenschläger, Daniel Whistler, Ayşe Yuva, 2023-11-29 Hegel and Schelling in Early Nineteenth Century France is a two volume work that documents the French reception of G W F Hegel and F W J Schelling from 1801 to 1848 It shows that the story of the French Hegel didn't begin with Wahl and Kojève by giving readers a solid understanding of the various ways in which German Idealism impacted nineteenth century French philosophy as well as providing the first ever English language translations of excerpts from the most important philosophical texts of the era Inside volume two readers will find a series of scholarly studies to help them get to grips with this neglected field in the history of ideas The contributors are world leading and emerging experts from Europe UK and North America They highlight the stakes and trace the pathways of this reception for French and German thought during the period including the ways in which French philosophers of the period took up the debates and concepts of German Idealism transformed them or rejected them In this way the volume aims to redress the serious neglect of early nineteenth century French thought in English language scholarship and in so doing goes beyond a nation based narrative of the history of philosophy Figures covered in the volumes include major philosophers such as Cousin Leroux Proudhon Quinet Ravaisson Renouvier and Vico as well more neglected figures like Bachelard de Penhoën Bachelard L. Bre L. Lerminier Pictet and Willm

Creators of Mathematical and Computational Sciences Ravi P Agarwal, Syamal K Sen, 2014-11-11 The book records the essential discoveries of mathematical and computational scientists in chronological order following the birth of ideas on the basis of prior ideas ad infinitum The authors document the winding path of mathematical scholarship throughout history

and most importantly the thought process of each individual that resulted in the mastery of their subject The book implicitly addresses the nature and character of every scientist as one tries to understand their visible actions in both adverse and congenial environments The authors hope that this will enable the reader to understand their mode of thinking and perhaps even to emulate their virtues in life

**Re-Reading Leonardo** Claire Farago, 2017-07-05 For nearly three centuries Leonardo da Vinci's work was known primarily through the abridged version of his Treatise on Painting first published in Paris in 1651 and soon translated into all the major European languages Here for the first time is a study that examines the historical reception of this vastly influential text This collection charts the varied interpretations of Leonardo's ideas in French Italian Spanish English German Dutch Flemish Greek and Polish speaking environments where the Trattato was an important resource for the academic instruction of artists one of the key sources drawn upon by art theorists and widely read by a diverse network of artists architects biographers natural philosophers translators astronomers publishers engineers theologians aristocrats lawyers politicians entrepreneurs and collectors The cross cultural approach employed here demonstrates that Leonardo's Treatise on Painting is an ideal case study through which to chart the institutionalization of art in Europe and beyond for 400 years The volume includes original essays by scholars studying a wide variety of national and institutional settings The coherence of the volume is established by the shared subject matter and interpretative aim to understand how Leonardo's ideas were used With its focus on the active reception of an important text overlooked in studies of the artist's solitary genius the collection takes Leonardo studies to a new level of historical inquiry Leonardo da Vinci's most significant contribution to Western art was his interpretation of painting as a science grounded in geometry and direct observation of nature One of the most important questions to emerge from this study is what enabled the same text to produce so many different styles of painting

Theorems in School, 2007-01-01 During the last decade a revaluation of proof and proving within mathematics curricula was recommended great emphasis was put on the need of developing proof related skills since the beginning of primary school This book addressing mathematics educators teacher trainers and teachers is published as a contribution to the endeavour of renewing the teaching of proof and theorems on the basis of historical epistemological cognitive and didactical considerations Authors come from eight countries and different research traditions this fact offers a broad scientific and cultural perspective In this book the historical and epistemological dimensions are dealt with by authors who look at specific research results in the history and epistemology of mathematics with an eye to crucial issues related to educational choices Two papers deal with the relationships between curriculum choices concerning proof and the related implicit or explicit epistemological assumptions and historical traditions in two different school systems and the teaching and learning of proof there The cognitive dimension is important in order to avoid that the didactical choices do not fit the needs and the potentialities of learners Our choice was to firstly deal with the features of reasoning related to proof mainly concerning the relationships between argumentation and proof The second part

of this book concentrates on some crucial cognitive and didactical aspects of the development of proof from the early approach in primary school to high school and university We will show how suitable didactical proposals within appropriate educational contexts can match the great yet underestimated young students potentialities in approaching theorems and theories Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences Ivor

Grattan-Guinness, 2004-11-11 First published in 2004 Routledge is an imprint of Taylor Francis an informa company **Piero Della Francesca** Judith Veronica Field, Piero, 2005-01-01 Studie over de wiskundige kennis van de renaissanceschilder ca 1416 1492 en over het belang van de exacte wetenschap in de betreffende kunstperiode **Collineations and Conic**

**Sections** Christopher Baltus, 2020-09-01 This volume combines an introduction to central collineations with an introduction to projective geometry set in its historical context and aiming to provide the reader with a general history through the middle of the nineteenth century Topics covered include but are not limited to The Projective Plane and Central Collineations The Geometry of Euclid's Elements Conic Sections in Early Modern Europe Applications of Conics in History With rare exception the only prior knowledge required is a background in high school geometry As a proof based treatment this monograph will be of interest to those who enjoy logical thinking and could also be used in a geometry course that emphasizes projective geometry **Because Without Cause** Marc Lange, 2017 Not all scientific explanations work by describing causal

connections between events or the world's overall causal structure In addition mathematicians regard some proofs as explaining why the theorems being proved do in fact hold This book proposes new philosophical accounts of many kinds of non causal explanations in science and mathematics **Between Tradition and Innovation** Ad J. Meskens, 2021-03-29 In Between Tradition and Innovation Ad Meskens traces the profound influence of a group of Flemish Jesuits on the course of mathematics in the seventeenth century Using manuscript evidence this book argues that one of the Flemish mathematics school's professors Gregorio a San Vicente 1584 1667 had developed a logically sound integration method more than a decade before the Italian mathematician Bonaventura Cavalieri Although San Vincente's superiors refused to grant him permission to publish his results his methods went on to influence numerous other mathematicians through his students many of whom became famous mathematicians in their own right By carefully tracing their careers and outlining their biographies Meskens convincingly shows that they made a number of ground breaking contributions to fields ranging from mathematics and mechanics to optics and architecture



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