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REDEFINING  
GEOMETRICAL  
EXACTNESS

Descartes' Transformation of  
the Early Modern Concept  
of Construction



Springer

# Redefining Geometrical Exactness Descartes Transformation Of The Early Modern Concept Of Construction

**Rob Iliffe, George E. Smith**



## **Redefining Geometrical Exactness Descartes Transformation Of The Early Modern Concept Of Construction:**

**Redefining Geometrical Exactness** H. J. M. Bos, 2001 Until the 17th century rigor and exactness in mathematics meant geometry and Euclid Other means of confirming results such as computation were considered inferior to the traditional constructions using ruler and compass In 1637 Descartes introduced what is now called analytical geometry which made algebraic methods equal to geometry in the methods of mathematics In this detailed study Bos explores the origins of what is meant by rigor in mathematics and how that definition evolved to include the use of new geometric and algebraic methods

**Descartes's Mathematical Thought** C. Sasaki, 2013-03-09 Covering both the history of mathematics and of philosophy Descartes's Mathematical Thought reconstructs the intellectual career of Descartes most comprehensively and originally in a global perspective including the history of early modern China and Japan Especially it shows what the concept of mathesis universalis meant before and during the period of Descartes and how it influenced the young Descartes In fact it was the most fundamental mathematical discipline during the seventeenth century and for Descartes a key notion which may have led to his novel mathematics of algebraic analysis *Oxford Studies in Early Modern Philosophy, Volume X* Donald

Rutherford, 2021 *Oxford Studies in Early Modern Philosophy* is an annual series presenting a selection of the best current work in the history of early modern philosophy It focuses on the seventeenth and eighteenth centuries the extraordinary period of intellectual flourishing that begins very roughly with Descartes and his contemporaries and ends with Kant It also publishes papers on thinkers or movements outside of that framework provided they are important in illuminating early modern thought The articles in OSEMP will be of importance to specialists within the discipline but the editors also intend that they should appeal to a larger audience of philosophers intellectual historians and others who are interested in the development of modern thought *Phenomenology and the Human Positioning in the Cosmos* Anna-Teresa

Tymieniecka, 2012-10-11 The classic conception of human transcendental consciousness assumes its self supporting existential status within the horizon of life world nature and earth Yet this assumed absoluteness does not entail the nature of its powers neither their constitutive force This latter call for an existential source reaching beyond the generative life world network Transcendental consciousness having lost its absolute status its point of reference it is the role of the logos to lay down the harmonious positioning in the cosmic sphere of the all establishing an original foundation of phenomenology in the primogenital onto-poiesis of life *The Cambridge Companion to Newton* Rob Iliffe, George E. Smith, 2016-04-07 This new edition includes three updated chapters a revised bibliography new introduction and three entirely new chapters *How Modern Science Came Into the World* H. F. Cohen, 2010 Once upon a time The Scientific Revolution of the 17th century was an innovative concept that inspired a stimulating narrative of how modern science came into the world Half a century later what we now know as the master narrative serves rather as a strait jacket so often events and contexts just fail to fit in No attempt has been made so far to replace the master narrative H Floris Cohen now comes up with precisely such a

replacement Key to his path breaking analysis cum narrative is a vision of the Scientific Revolution as made up of six distinct yet narrowly interconnected revolutionary transformations each of some twenty five to thirty years duration This vision enables him to explain how modern science could come about in Europe rather than in Greece China or the Islamic world It also enables him to explain how half way into the 17th century a vast crisis of legitimacy could arise and in the end be overcome

**Mathematics Going Forward** Jean-Michel Morel, Bernard Teissier, 2023-05-13 This volume is an original collection of articles by 44 leading mathematicians on the theme of the future of the discipline The contributions range from musings on the future of specific fields to analyses of the history of the discipline to discussions of open problems and conjectures including first solutions of unresolved problems Interestingly the topics do not cover all of mathematics but only those deemed most worthy to reflect on for future generations These topics encompass the most active parts of pure and applied mathematics including algebraic geometry probability logic optimization finance topology partial differential equations category theory number theory differential geometry dynamical systems artificial intelligence theory of groups mathematical physics and statistics

*The Routledge Companion to Eighteenth Century Philosophy* Aaron Garrett, 2014-03-21 The Eighteenth century is one of the most important periods in the history of Western philosophy witnessing philosophical scientific and social and political change on a vast scale In spite of this there are few single volume overviews of the philosophy of the period as a whole The Routledge Companion to Eighteenth Century Philosophy is an authoritative survey and assessment of this momentous period covering major thinkers topics and movements in Eighteenth century philosophy Beginning with a substantial introduction by Aaron Garrett the thirty five specially commissioned chapters by an outstanding team of international contributors are organised into seven clear parts Context and Movements Metaphysics and Understanding Mind Soul and Perception Morals and Aesthetics Politics and Society Philosophy in relation to the Arts and Sciences Major Figures Major topics and themes are explored and discussed ranging from materialism free will and personal identity to the emotions the social contract aesthetics and the sciences including mathematics and biology The final section examines in more detail three figures central to the period Hume Rousseau and Kant As such The Routledge Companion to Eighteenth Century Philosophy is essential reading for all students of the period both in philosophy and related disciplines such as politics literature history and religious studies

Visioning Technologies Graham Cairns, 2016-12-08 Visioning Technologies brings together a collection of texts from leading theorists to examine how architecture has been and is reframed and restructured by the visual and theoretical frameworks introduced by different technologies of sight understood to include orthographic projection perspective drawing telescopic devices photography film and computer visualization amongst others Each chapter deals with its own area and historical period of expertise organized sequentially to mark out and analyse the historical evolution of how architecture has been transformed by technologically induced shifts in human perception from the 15th century until today This book underlines the way in which architectural forms and design

processes have developed historically in conjunction with the systems of sight we manufacture technologically and suggests this continues today Paradoxically it is premised on the argument that these technological systems tend in their initial formulations to obtain ever greater realism in our visualizations of the physical world

**Critical Views of Logic** Mirja Hartimo, Frode Kjosavik, Øystein Linnebo, 2023-10-31 This book examines positions that challenge the Fregean logic first view It raises critical questions about logic by examining various ways in which logic may be entangled with mathematics and metaphysics Is logic topic neutral and general Can we take the application of logic for granted This book suggests that we should not be dogmatic about logic but ask similar critical questions about logic as those Kant raised about metaphysics and mathematics It challenges the Fregean logic first view according to which logic is fundamental and hence independent of any extra logical considerations Whereas Quine assimilated logic and mathematics to the theoretical parts of empirical science the present volume explores views that stop short of his thoroughgoing holism but instead take logic to be answerable to or entangled with some particular disciplines The contributions provide views that assign primacy to mathematical reasons Kantian metaphysical grounds Husserlian transcendental phenomenological reflection or normative considerations about how terms ought to be defined in various fields of empirical science or mathematics Space is thereby carved out between a Fregean position on the one hand and Quinean holism on the other *Critical Views of Logic* will be a key resource for academics researchers and advanced students of philosophy linguistics mathematics and computer science as well as those engaged in various fields of empirical science The chapters in this book except for chapter 4 were originally published in the journal *Inquiry*

*A Companion to Hobbes* Marcus P. Adams, 2021-10-08 Offers comprehensive treatment of Thomas Hobbes s thought providing readers with different ways of understanding Hobbes as a systematic philosopher As one of the founders of modern political philosophy Thomas Hobbes is best known for his ideas regarding the nature of legitimate government and the necessity of society submitting to the absolute authority of sovereign power Yet Hobbes produced a wide range of writings from translations of texts by Homer and Thucydides to interpretations of Biblical books to works devoted to geometry optics morality and religion Hobbes viewed himself as presenting a unified method for theoretical and practical science an interconnected system of philosophy that provides many entry points into his thought *A Companion to Hobbes* is an expertly curated collection of essays offering close textual engagement with the thought of Thomas Hobbes in his major works while probing his ideas regarding natural philosophy mathematics human nature civil philosophy religion and more The Companion discusses the ways in which scholars have tried to understand the unity and diversity of Hobbes s philosophical system and examines the reception of the different parts of Hobbes s philosophy by thinkers such as Ren Descartes Margaret Cavendish David Hume and Immanuel Kant Presenting a diversity of fresh perspectives by both emerging and established scholars this volume Provides a comprehensive treatment of Hobbes s thought in his works including *Elements of Law* *Elements of Philosophy* and *Leviathan* Explores the connecting points between Hobbes

metaphysics epistemology mathematics natural philosophy morality and civil philosophy Offers readers strategies for understanding how the parts of Hobbes's philosophical system fit together Examines Hobbes's philosophy of mathematics and his attempts to understand geometrical objects and definitions Considers Hobbes's philosophy in contexts such as the natural state of humans gender relations and materialist worldviews Challenges conceptions of Hobbes's moral theory and his views about the rights of sovereigns Part of the acclaimed Blackwell Companions to Philosophy series A Companion to Hobbes is an invaluable resource for scholars and advanced students of Early modern thought particularly those from disciplines such as History of Philosophy Political Philosophy Intellectual History History of Politics Political Theory and English *Secondary Algebra Education: Revisiting Topics and Themes and Exploring the Unknown* Paul

Drijvers, 2011-10-19 Nowadays algebra education is subject to worldwide scrutiny Different opinions on its goals approaches and achievements are at the heart of debates among teachers educators researchers and decision makers What should the teaching of algebra in secondary school mathematics look like Should it focus on procedural skills or on algebraic insight Should it stress practice or integrate technology Do we require formal proofs and notations or do informal representations suffice Is algebra in school an abstract subject or does it take its relevance from application in daily life contexts What should secondary school algebra education that prepares for higher education and professional practice in the twenty first century look like This book addresses these questions and aims to inform in service and future teachers mathematics educators and researchers on recent insights in the domain and on specific topics and themes such as the historical development of algebra the role of productive practice and algebra in science and engineering in particular The authors all affiliated with the Freudenthal Institute for Science and Mathematics Education in the Netherlands share a common philosophy which acts as a sometimes nearly invisible backbone for the overall view on algebra education the theory of realistic mathematics education From this point of departure different perspectives are chosen to describe the opportunities and pitfalls of today's and tomorrow's algebra education Inspiring examples and reflections illustrate current practice and explore the unknown future of algebra education to appropriately meet students needs **A History of Mathematical Impossibility** Jesper

Lützen, 2023 This book tells the history of impossibility theorems starting with the ancient Greek proof of the

incommensurability of the side and the diagonal in a square *The Cambridge History of Philosophy of the Scientific*

*Revolution* David Marshall Miller, Dana Jalobeanu, 2022-01-06 A collection of cutting edge scholarship on the close interaction of philosophy with science at the birth of the modern age *Making and Breaking Mathematical Sense* Roi

Wagner, 2017-01-10 In line with the emerging field of philosophy of mathematical practice this book pushes the philosophy of mathematics away from questions about the reality and truth of mathematical entities and statements and toward a focus on what mathematicians actually do and how that evolves and changes over time How do new mathematical entities come to be What internal natural cognitive and social constraints shape mathematical cultures How do mathematical signs form and

reform their meanings How can we model the cognitive processes at play in mathematical evolution And how does mathematics tie together ideas reality and applications Roi Wagner uniquely combines philosophical historical and cognitive studies to paint a fully rounded image of mathematics not as an absolute ideal but as a human endeavor that takes shape in specific social and institutional contexts The book builds on ancient medieval and modern case studies to confront philosophical reconstructions and cutting edge cognitive theories It focuses on the contingent semiotic and interpretive dimensions of mathematical practice rather than on mathematics claim to universal or fundamental truths in order to explore not only what mathematics is but also what it could be Along the way Wagner challenges conventional views that mathematical signs represent fixed ideal entities that mathematical cognition is a rigid transfer of inferences between formal domains and that mathematics exceptional consensus is due to the subject s underlying reality The result is a revisionist account of mathematical philosophy that will interest mathematicians philosophers and historians of science alike

**Discourse on a New Method** Mary Domski, Michael Dickson, 2010 Addressing a wide range of topics from Newton to Post Kuhnian philosophy of science these essays critically examine themes that have been central to the influential work of philosopher Michael Friedman Special focus is given to Friedman s revealing study of both history of science and philosophy in his work on Kant Newton Einstein and other major figures This interaction of history and philosophy is the subject of the editors manifesto and serves to both explain and promote the essential ties between two disciplines usually regarded as unrelated

Constructing Knowledge for Teaching Secondary Mathematics Orit Zaslavsky, Peter Sullivan, 2011-04-11 Teacher education seeks to transform prospective and or practicing teachers from neophyte possibly uncritical perspectives on teaching and learning to more knowledgeable adaptable analytic insightful observant resourceful reflective and confident professionals ready to address whatever challenges teaching secondary mathematics presents This transformation occurs optimally through constructive engagement in tasks that foster knowledge for teaching secondary mathematics Ideally such tasks provide a bridge between theory and practice and challenge surprise disturb confront extend or provoke examination of alternatives drawn from the context of teaching We define tasks as the problems or activities that having been developed evaluated and refined over time are posed to teacher education participants Such participants are expected to engage in these tasks collaboratively energetically and intellectually with an open mind and an orientation to future practice The tasks might be similar to those used by classroom teachers e g the analysis of a graphing problem or idiosyncratic to teacher education e g critique of videotaped practice This edited volume includes chapters based around unifying themes of tasks used in secondary mathematics teacher education These themes reflect goals for mathematics teacher education and are closely related to various aspects of knowledge required for teaching secondary mathematics They are not based on the conventional content topics of teacher education e g decimals grouping practices but on broad goals such as adaptability identifying similarities productive disposition overcoming barriers micro simulations choosing tools and study of practice This

approach is innovative and appeals both to prominent authors and to our target audiences      **Homage to Evangelista Torricelli's Opera Geometrica 1644-2024** Raffaele Pisano, Jean Dhombres, Patricia Radelet de Grave, Paolo Bussotti, 2024-03-22 Evangelista Torricelli exemplifies the use the moderns made of the ancients mathematical methods Celebrating Evangelista Torricelli s monumental Opera geometrica this book marks 380 years since its publication 1644 2024 This homage to Torricelli introduces the magnificent major work in Mechanics and Mathematics of a brilliant Archimedean and Galilean scientist to modern readers Opera geometrica deals with Motion Mechanics and Geometry Infinitesimals In quibus Archimedis doctrina Torricelli also presents his mechanical principle of equilibrium the foundation of the modern Principle of Virtual Work Static This outstanding source and research book spotlights the relevance and originality of Torricelli s Mechanics and is the first and most profound analysis of the Opera geometrica to date The historical study is achieved in extensive Introduction 5 Essays and an accurate Transcription of Opera geometrica with parallel side by side text including substantive explicative notes The book is an accessible avenue to understanding this work by leading authorities who offer much needed insights into the relationship Physics Mathematics Mechanics and Fundamentals It appeals to historians epistemologists and scientists      *The History of Continua* Stewart Shapiro, Geoffrey Hellman, 2021 Mathematical and philosophical thought about continuity has changed considerably over the ages from Aristotle s insistence that a continuum is a unified whole to the dominant account today that a continuum is composed of infinitely many points This book explores the key ideas and debates concerning continuity over more than 2500 years      **The Art of Science** Rossella Lupacchini, Annarita Angelini, 2014-07-22 In addition to linear perspective complex numbers and probability were notable discoveries of the Renaissance While the power of perspective which transformed Renaissance art was quickly recognized the scientific establishment treated both complex numbers and probability with much suspicion It was only in the twentieth century that quantum theory showed how probability might be molded from complex numbers and defined the notion of complex probability amplitude From a theoretical point of view however the space opened to painting by linear perspective and that opened to science by complex numbers share significant characteristics The Art of Science explores this shared field with the purpose of extending Leonardo s vision of painting to issues of mathematics and encouraging the reader to see science as an art The intention is to restore a visual dimension to mathematical sciences an element dulled if not obscured by historians philosophers and scientists themselves



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