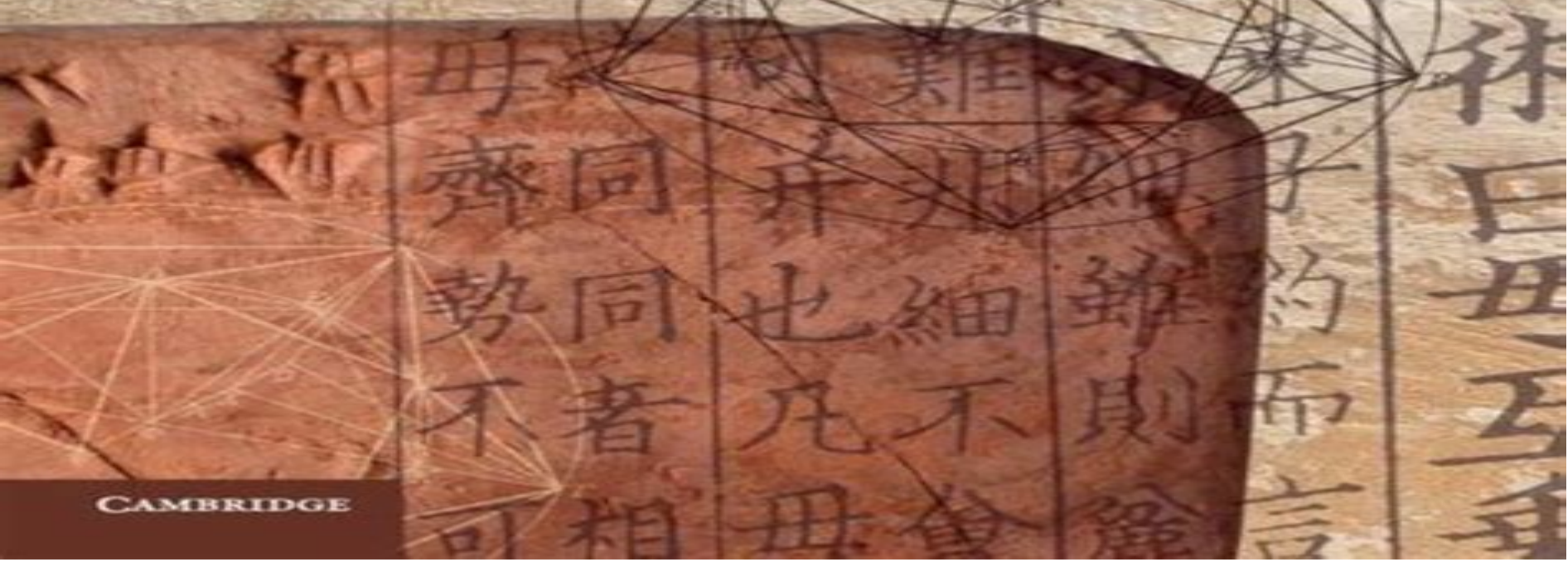


# The History of Mathematical Proof *in Ancient Traditions*

*Edited by*  
KARINE CHEMLA



CAMBRIDGE

# **The History Of Mathematical Proof In Ancient Traditions**

**Agathe Keller**



## The History Of Mathematical Proof In Ancient Traditions

The History of Mathematical Proof in Ancient Traditions Karine Chemla, 2012-07-05 This radical profoundly scholarly book explores the purposes and nature of proof in a range of historical settings It overturns the view that the first mathematical proofs were in Greek geometry and rested on the logical insights of Aristotle by showing how much of that view is an artefact of nineteenth century historical scholarship It documents the existence of proofs in ancient mathematical writings about numbers and shows that practitioners of mathematics in Mesopotamian Chinese and Indian cultures knew how to prove the correctness of algorithms which are much more prominent outside the limited range of surviving classical Greek texts that historians have taken as the paradigm of ancient mathematics It opens the way to providing the first comprehensive textually based history of proof

**The History of Mathematical Proof in Ancient Traditions** Karine Chemla, 2014-05-14 This radical profoundly scholarly book explores the purposes and nature of proof in a range of historical settings It overturns the view that the first mathematical proofs were in Greek geometry and rested on the logical insights of Aristotle by showing how much of that view is an artefact of nineteenth century historical scholarship It documents the existence of proofs in ancient mathematical writings about numbers and shows that practitioners of mathematics in Mesopotamian Chinese and Indian cultures knew how to prove the correctness of algorithms which are much more prominent outside the limited range of surviving classical Greek texts that historians have taken as the paradigm of ancient mathematics It opens the way to providing the first comprehensive textually based history of proof

## **Handbook of the History and Philosophy of Mathematical Practice** Bharath Sriraman,

*The Ancient Tradition of Geometric Problems* Wilbur Richard Knorr, 1993-01-01 Illustrated study focuses on attempts by ancient Greeks to solve three classical problems cube duplication angle trisection and circle quadrature Origins of the study of conics introduction of special mechanical curves more 1986 edition

Cultural Foundations of Mathematics C. K. Raju, 2007 The Volume Examines In Depth The Implications Of Indian History And Philosophy For Contemporary Mathematics And Science The Conclusions Challenge Current Formal Mathematics And Its Basis In The Western Dogma That Deduction Is Infallible Or That It Is Less Fallible Than Induction The Development Of The Calculus In India Over A Thousand Years Is Exhaustively Documented In This Volume Along With Novel Insights And Is Related To The Key Sources Of Wealth Monsoon Dependent Agriculture And Navigation Required For Overseas Trade And The Corresponding Requirement Of Timekeeping Refecting The Usual Double Standard Of Evidence Used To Construct Eurocentric History A Single New Standard Of Evidence For Transmissions Is Proposed Using This It Is Pointed Out That Jesuits In Cochin Following The Toledo Model Of Translation Had Long Term Opportunity To Transmit Indian Calculus Texts To Europe The European Navigational Problem Of Determining Latitude Longitude And Loxodromes And The 1582 Gregorian Calendar Reform Provided Ample Motivation The Mathematics In These Earlier Indian Texts Suddenly Starts Appearing In European Works From The Mid 16Th Century Onwards Providing Compelling Circumstantial Evidence While The Calculus In India Had Valid Pramana This Differed From Western Notions Of Proof And The Indian Algorismus Notion Of Number Differed From The European Abacus Notion Hence Like Their Earlier Difficulties With The Algorismus Europeans Had Difficulties In Understanding The Calculus Which Like Computer Technology Enhanced The Ability To Calculate Albeit In A Way Regarded As Epistemologically Insecure Present Day Difficulties In Learning Mathematics Are Related Via Phylogeny Is Ontogeny To These Historical Difficulties In Assimilating Imported Mathematics An Appendix Takes Up Further Contemporary Implications Of The New Philosophy Of Mathematics For The Extension Of The Calculus Which Is Needed To Handle The Infinities Arising In The Study Of Shock Waves And The Renormalization Problem Of Quantum Field Theory

*Mathematical Commentaries in the Ancient World* Karine Chemla, Glenn W. Most, 2022-06-09 This is the first book length analysis of the techniques and procedures of ancient mathematical commentaries It focuses on examples in Chinese Sanskrit Akkadian and Sumerian and Ancient Greek presenting the general issues by constant detailed reference to these commentaries of which substantial extracts are included in the original languages and in translation sometimes for the first time This makes the issues accessible to readers without specialized training in mathematics or in the languages involved The result is a much richer understanding than was hitherto possible of the crucial role of commentaries in the history of mathematics in four different linguistic areas of the nature of mathematical commentaries in general of the contribution that the study of mathematical commentaries can make to the history of science and to the study of commentaries in general and of the ways in which mathematical commentaries are like and unlike other kinds of commentaries

**Scale, Space and Canon in Ancient Literary Culture** Reviel Netz, 2020-02-20 Greek culture matters because its unique pluralistic debate shaped modern discourses This ground breaking book explains this feature by retelling the history of ancient literary culture through the lenses of canon space and scale It proceeds from the invention of the performative author in the archaic symposium through the polis of letters enabled by Athenian democracy and into the Hellenistic era where one s space mattered and culture became bifurcated between Athens and Alexandria This duality was reconfigured into an eclectic variety consumed by Roman patrons and predicated on scale with about a thousand authors active at any given moment As patronage dried up in the third century CE scale collapsed and literary culture was reduced to the teaching of a narrower field of authors paving the way for the Middle Ages The result is a new history of ancient culture which is sociological quantitative and all encompassing cutting through eras and genres

*Shaping the Sciences of the Ancient and Medieval World* Agathe Keller,

*The Oxford Handbook of the History of Mathematics* Eleanor Robson, Jacqueline Stedall, 2009 This handbook explores the history of mathematics addressing what mathematics has been and what it has meant to practise it 36 self contained chapters provide a fascinating overview of 5000 years of mathematics and its key cultures for academics in mathematics historians of science and general historians

*Powerful Arguments* ,2020-03-02 The essays in *Powerful Arguments* reconstruct the standards of validity underlying argumentative practices in a wide array of late imperial Chinese discourses ranging from historiography philosophy law and religion to natural studies literature and the civil examination system

The Dialogical Roots of Deduction Catarina Dutilh Novaes, 2020-12-17 The first comprehensive account of the concept and practices of deduction covering philosophy history cognition and mathematical practice

**Handbook on the History of Mathematics Education** Alexander Karp, Gert Schubring, 2014-01-25 This is the first comprehensive International Handbook on the History of Mathematics Education covering a wide spectrum of epochs and civilizations countries and cultures Until now much of the research into the rich and varied history of mathematics education has remained inaccessible to the vast majority of scholars not least because it has been written in the language and for readers of an individual country And yet a historical overview however brief has become an indispensable element of nearly every dissertation and scholarly article This handbook provides for the first time a comprehensive and systematic aid for researchers around the world in finding the information they need about historical developments in mathematics education not only in their own countries but globally as well Although written primarily for mathematics educators this handbook will also be of interest to researchers of the history of education in general as well as specialists in cultural and even social history

**The History of Mathematics: A Source-Based Approach** June Barrow-Green, Jeremy Gray, Robin Wilson, 2021-12-17 The History of Mathematics A Source Based Approach is a comprehensive history of the development of mathematics This the first volume of the two volume set takes readers from the beginning of counting in prehistory to 1600 and the threshold of the discovery of calculus It is notable for the extensive engagement with original primary and secondary source material The coverage is worldwide and embraces developments including education in Egypt Mesopotamia Greece China India the Islamic world and Europe The emphasis on astronomy and its historical relationship to mathematics is new and the presentation of every topic is informed by the most recent scholarship in the field The two volume set was designed as a textbook for the authors acclaimed year long course at the Open University It is in addition to being an innovative and insightful textbook an invaluable resource for students and scholars of the history of mathematics The authors each among the most distinguished mathematical historians in the world have produced over fifty books and earned scholarly and expository prizes from the major mathematical societies of the English speaking world



*Texts, Textual Acts and the History of Science* Karine Chemla, Jacques Virbel, 2015-07-15 The book presents the outcomes of an innovative research programme in the history of science and implements a Text Act Theory which extends Speech Act Theory in order to illustrate a new approach to texts and textual communicative acts It examines assertives absolute or conditional statements forecasts insurance etc directives declarations and enumerations as well as different types of textual units allowing authors to perform these acts algorithms recipes prescriptions lexical templates for terminological studies and enumerative structures The book relies on the study of a broad range of documents of the past dealing with various domains mathematics zoology medicine lexicography The documents examined come from scholarly sources from different parts of the world such as China Europe India Mesopotamia and are written in a variety of European languages as well as Chinese Cuneiform and Sanskrit This approach proves fruitful in both history of science and Text Act Theory

**The Cambridge History of Science: Volume 1, Ancient Science** Alexander Jones, Liba Taub, 2018-12-13 This volume in the highly respected Cambridge History of Science series is devoted to the history of science medicine and mathematics of the Old World in antiquity Organized by topic and culture its essays by distinguished scholars offer the most comprehensive and up to date history of ancient science currently available Together they reveal the diversity of goals contexts and accomplishments in the study of nature in Mesopotamia Egypt Greece Rome China and India Intended to provide a balanced and inclusive treatment of the ancient world contributors consider scientific medical and mathematical learning in the cultures associated with the ancient world

*Revolutions and Continuity in Greek Mathematics* Michalis Sialaros, 2018-04-23 This volume brings together a number of leading scholars working in the field of ancient Greek mathematics to present their latest research In their respective area of specialization all contributors offer stimulating approaches to questions of historical and historiographical revolutions and continuity Taken together they provide a powerful lens for evaluating the applicability of Thomas Kuhn's ideas on scientific revolutions to the discipline of ancient Greek mathematics Besides the latest historiographical studies on geometrical algebra and premodern algebra the reader will find here some papers which offer new insights into the controversial relationship between Greek and pre Hellenic mathematical practices Some other contributions place emphasis on the other edge of the historical spectrum by exploring historical lines of continuity between ancient Greek Byzantine and post Hellenic mathematics The terminology employed by Greek mathematicians along with various non textual and material elements is another topic which some of the essays in the volume explore Finally the last three articles focus on a traditionally rich source on ancient Greek mathematics namely the works of Plato and Aristotle

*Researching the History of Mathematics Education* Fulvia Furinghetti, Alexander Karp, 2017-12-04 This book offers insights into the history of mathematics education covering both the current state of the art of research and the methodology of the field History of mathematics education is treated in the book as a part of social history This book grew out of the presentations delivered at the International Congress on Mathematics Education in Hamburg Modern development and growing internationalization of mathematics education made it clear that many urgent questions benefit from a historical approach The chapters present viewpoints from the following countries Belgium Brazil Cambodia China Cyprus Germany Iceland Italy the Netherlands Russia Spain and Sweden Each chapter represents significant directions of historical studies The book is a valuable source for every historian of mathematics education and those interested in mathematics education and its development

*Realizing Reason* Danielle Macbeth, 2014-03 Danielle Macbeth offers a new account of mathematical practice as a mode of inquiry into objective truth and argues that understanding the nature of mathematical practice provides us with the resources to develop a radically new conception of ourselves and our capacity for knowledge of objective truth

**Form and Clarity in Euclid's Elements** Anna-Maria Gasser, 2024-07-22 As of yet the remarkable and highly influential textual form of Euclidean mathematics has not been considered from a literary aesthetic perspective By its extreme standardization and seeming non-literariness it appears to defy such an approach This book nonetheless attempts precisely a literary aesthetic study of the language and style of Euclid's Elements focusing on book I It aims to find out what is literary about the form and what motivates this form as form In doing so it employs the concept of clarity asking How is the textual form related to logical and communicative clarity That is how far is the omnipresent standardization necessary for the accomplishment and successful communication of the proofs Based on a close analysis of the standardization at all levels of the text lexicon grammar structure and especially diagram it argues that the textual form of the Elements is standardized beyond logical communicative purposes and that it is in this sense aesthetic The book exposes the unexpected literary dimension of Euclid's Elements provides a new interpretation of the peculiar form of the work and offers a model for determining the role of clarity not only in Greek theoretical mathematics

**Science after the Practice Turn in the Philosophy, History, and Social Studies of Science** Léna Soler, Sjoerd Zwart, Michael Lynch, Vincent Israel-Jost, 2014-03-21 In the 1980s philosophical historical and social studies of science underwent a change which later evolved into a turn to practice Analysts of science were asked to pay attention to scientific practices in meticulous detail and along multiple dimensions including the material social and psychological Following this turn the interest in scientific practices continued to increase and had an indelible influence in the various fields of science studies No doubt the practice turn changed our conceptions and approaches of science but what did it really teach us What does it mean to study scientific practices What are the general lessons implications and new challenges This volume explores questions about the practice turn using both case studies and theoretical analysis The case studies examine empirical and mathematical sciences including the engineering sciences The volume promotes interactions between acknowledged experts from different often thought of as conflicting orientations It presents contributions in conjunction with critical commentaries that put the theses and assumptions of the former in perspective Overall the book offers a unique and diverse range of perspectives on the meanings methods lessons and challenges associated with the practice turn

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## **Table of Contents The History Of Mathematical Proof In Ancient Traditions**

1. Understanding the eBook The History Of Mathematical Proof In Ancient Traditions
  - The Rise of Digital Reading The History Of Mathematical Proof In Ancient Traditions
  - Advantages of eBooks Over Traditional Books
2. Identifying The History Of Mathematical Proof In Ancient Traditions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an The History Of Mathematical Proof In Ancient Traditions
  - User-Friendly Interface
4. Exploring eBook Recommendations from The History Of Mathematical Proof In Ancient Traditions
  - Personalized Recommendations
  - The History Of Mathematical Proof In Ancient Traditions User Reviews and Ratings
  - The History Of Mathematical Proof In Ancient Traditions and Bestseller Lists
5. Accessing The History Of Mathematical Proof In Ancient Traditions Free and Paid eBooks
  - The History Of Mathematical Proof In Ancient Traditions Public Domain eBooks
  - The History Of Mathematical Proof In Ancient Traditions eBook Subscription Services
  - The History Of Mathematical Proof In Ancient Traditions Budget-Friendly Options
6. Navigating The History Of Mathematical Proof In Ancient Traditions eBook Formats



- ePub, PDF, MOBI, and More
  - The History Of Mathematical Proof In Ancient Traditions Compatibility with Devices
  - The History Of Mathematical Proof In Ancient Traditions Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of The History Of Mathematical Proof In Ancient Traditions
    - Highlighting and Note-Taking The History Of Mathematical Proof In Ancient Traditions
    - Interactive Elements The History Of Mathematical Proof In Ancient Traditions
  8. Staying Engaged with The History Of Mathematical Proof In Ancient Traditions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers The History Of Mathematical Proof In Ancient Traditions
  9. Balancing eBooks and Physical Books The History Of Mathematical Proof In Ancient Traditions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection The History Of Mathematical Proof In Ancient Traditions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine The History Of Mathematical Proof In Ancient Traditions
    - Setting Reading Goals The History Of Mathematical Proof In Ancient Traditions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of The History Of Mathematical Proof In Ancient Traditions
    - Fact-Checking eBook Content of The History Of Mathematical Proof In Ancient Traditions
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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