

Sources and Studies in the History of Mathematics  
and Physical Sciences

Jacques Sesiano

# **Liber Mahameleth**

 Springer

# Liber Mahameleth Liber Mahameleth

**Jens Høyrup**



## **Liber Mahameleth Liber Mahameleth:**

*Liber Mahameleth* Jacques Sesiano, 2014-03-18 The *Liber mahameleth* is a work in Latin written in the mid 12th century based mainly on Arabic sources from Islamic Spain. It is now our principal source on mathematics in Islamic Spain at that time. There are few extant Arabic texts and no one is as complete as the LM. It is also the second largest mathematical work from the Latin Middle Ages; the other is by Fibonacci some 50 years later. Since the three main manuscripts preserving it are incomplete and there are many scribal errors, a reliable Latin text has been established which reports in notes the various readings of the manuscripts and the errors in them. This is how a so-called critical edition is made. This edition of the Latin text is preceded by a General Introduction describing the various manuscripts, the content of the work and what we know about its author. Part Two of the volume is a translation of the text and ends with a glossary of Latin terms. The glossary will be of great importance for the knowledge of Latin scientific terms from that time since there is no other mathematical text of this size from the 12th century. Part Three begins with a short introduction and then analyzes all the problems from the text with a summary of the mathematical methods involved in each chapter. The commentary is a companion to the translation and explains the author's solving methods.

**The Liber Mahameleth** Jacques Sesiano, 2014    **The Liber Mahameleth** Jacques Sesiano, 2014    **Le Liber mahameleth** Anne-Marie Vlasschaert, 2010 English summary Medieval mathematics had a very important economic role in the 12th century as its use was not confined to mere scholars but extended to well-established traders and the homeless. Many books that are discussed present an impressive number of examples and problems used in everyday life. *Le Liber mahameleth* or *book transactions* is a Latin version of a work that would have been drafted in Castile between 1143 and 1153. The original text is known to us through four manuscripts including BN Paris Lat 7377A. The author is likely Domingo Gundisalvi, a scientist close to groups of intellectuals and Toledan translators. His way of exposing arithmetic matches the shopping habits of families who were developing it for their private use. This treaty could thus be a textbook case.

French text: French description: Les mathématiques médiévales avaient un rôle économique très important au XII<sup>ème</sup> siècle étant donné que leur usage ne se limitait pas aux simples érudits mais s'étendait aux commerçants bien établis et aux itinérants. De nombreux ouvrages qui leur sont adressés présentent un nombre impressionnant d'exemples et de problèmes repris à la vie de tous les jours. Notre texte en est un saisissant témoin et méritait pour cela d'être édité. *Le Liber mahameleth* ou *livre des transactions* est une version latine d'un *Kita b al muca mala t* qui aurait été rédigée en Castille entre 1143 et 1153. Le texte inédit nous est connu au travers de quatre manuscrits dont B N Paris lat 7377A. Son auteur est vraisemblablement Domingo Gundisalvi, un savant proche des groupes d'intellectuels et de traducteurs toledans. Sa manière d'exposer l'arithmétique correspond bien aux habitudes des familles commerçantes qui élaboraient des cours à leur usage privé. Ce traité pourrait donc constituer un cas d'école.

*Arabic into Latin in the Middle Ages* Charles Burnett, 2024-10-28 This collection of Charles Burnett's articles on the

transmission of Arabic learning to Europe concentrates on the identity of the Latin translators and the context in which they were working The articles are arranged in roughly chronological order beginning with the earliest known translations from Arabic at the end of the 10th century progressing through 11th century translations made in Southern Italy translators working in Sicily and the Principality of Antioch at the beginning of the 12th century the first of the 12th century Iberian translators the beginnings and development of professional translation activity in Toledo and the transfer of this activity from Toledo to Frederick II's entourage in the 13th century Most of the articles include editions of texts that either illustrate the style and character of the translator or provide the source material for his biobibliography The World of the Abacus Jens Høyrup, 2024-03-25 The abacus was a thorough and complete system of arithmetical calculations which saw its dawn in the Indian and Arabic tradition of the Middle Ages but which was developed in its fully fledged aspects especially in Italy between Genoa Milan Venice and the region of Umbria In this monograph Høyrup explores how the abacus tradition has developed in Europe with a focus on Italy and Germany between the 14th and the 17th Century With the analysis of texts from Fibonacci Pacioli and Stifel to name but a few this book offers a critical historical analysis of the development and diffusion of a tradition of calculus that has deeply influenced the way in which mathematics has developed in the West The primary purpose of the book is to present a fairly detailed portrait of the abacus tradition as it developed historically as will be argued Fibonacci was much less important for the emergence of this tradition than mostly assumed but since his importance is broadly taken for granted that argument needs to be made for which reason Fibonacci's *Liber Abaci* is also described and analyzed in some depth A secondary purpose is to show how the adoption of abacus mathematics in German lands gave rise to the creation of a different tradition The end of the book investigates the interplay of abacus algebra with other intellectual currents which turned the whole mathematical undertaking upside down in the 17th Century

**Numerals and Arithmetic in the Middle Ages** Charles Burnett, 2024-10-28 This volume the third by Charles Burnett in the *Variorum* series brings together articles on the different numeral forms used in the Middle Ages and their use in mathematical and other contexts Some pieces study the introduction of Hindu Arabic numerals into Western Europe documenting in more detail than anywhere else the different forms in which they are found before they acquired the standard shapes with which we are familiar today Others deal with experiments with other forms of numeration within Latin script e.g. using the first nine Roman numerals as symbols with place value abbreviating the Roman numerals and using the Latin letters as numerals The author discusses how different types of numerals are used for different purposes and the application of numerals to the abacus and to calculation with pen and ink The studies include the critical edition of several Latin texts *Selected Essays on Pre- and Early Modern Mathematical Practice* Jens Høyrup, 2019-09-20 This book presents a broad selection of articles mainly published during the last two decades on a variety of topics within the history of mathematics mostly focusing on particular aspects of mathematical practice This book is of interest to and provides

methodological inspiration for historians of science or mathematics and students of these disciplines      **An Introduction to the History of Algebra** Jacques Sesiano, 2009 This text should not be viewed as a comprehensive history of algebra before 1600 but as a basic introduction to the types of problems that illustrate the earliest forms of algebra It would be particularly useful for an instructor who is looking for examples to help enliven a course on elementary algebra with problems drawn from actual historical texts Warren Van Egmond about the French edition for MathSciNet This book does not aim to give an exhaustive survey of the history of algebra up to early modern times but merely to present some significant steps in solving equations and wherever applicable to link these developments to the extension of the number system Various examples of problems with their typical solution methods are analyzed and sometimes translated completely Indeed it is another aim of this book to ease the reader's access to modern editions of old mathematical texts or even to the original texts to this end some of the problems discussed in the text have been reproduced in the appendices in their original language Greek Latin Arabic Hebrew French German Provencal and Italian with explicative notes      **Mastering the History of Pure and Applied Mathematics** Toke Knudsen, Jessica Carter, 2024-06-04

The present collection of essays are published in honor of the distinguished historian of mathematics Professor Emeritus Jesper Lützen In a career that spans more than four decades Professor Lützen's scholarly contributions have enhanced our understanding of the history development and organization of mathematics The essays cover a broad range of areas connected to Professor Lützen's work In addition to this noteworthy scholarship Professor Lützen has always been an exemplary colleague providing support to peers as well as new faculty and graduate students We dedicate this Festschrift to Professor Lützen as a scholarly role model mentor colleague and friend

**Distributivity-like Results in the Medieval Traditions of Euclid's Elements** Leo Corry, 2021-11-19 This book provides a fresh view on an important and largely overlooked aspect of the Euclidean traditions in the medieval mathematical texts particularly concerning the interrelations between geometry and arithmetic and the rise of algebraic modes of thought It appeals to anyone interested in the history of mathematics in general and in history of medieval and early modern science

**Explorations and False Trails** Jens Høyrup, 2024-07-29 This book provides a unique perspective on the history of European algebra up to the advent of Viète and Descartes The standard version of this history is written on the basis of a narrow and misleading source basis the Latin translations of al Khwarizmi Fibonacci's Liber abbaci Luca Pacioli's Summa Cardano's Ars magna with neither Fibonacci nor Pacioli being read in detail The existence of the Italian abacus and German cossic algebra is at most taken note of but they are not read leading to the idea that Viète's and Descartes use of genuine symbolism not only abbreviations many unknowns and abstract coefficients seem to be miraculous leaps This book traces the meandering development of all these techniques along with the mostly ignored but very important parenthesis function by means of detailed readings of all pertinent sources including the abacus and cossic algebra and French algebra from Chuquet to Gosselin It argues for a necessary distinction between abbreviating glyphs and genuine symbols serving within a symbolic

syntax which allows it to trace the emergence of symbolic calculation Characterization of the mathematical practice of the environment within which Vi te and Descartes moved allows for an explanation of how these two figures did not even need to invent abstract coefficients but rather received them as a gift

**The Development of Mathematics in Medieval Europe** Menso Folkerts, 2024-10-28 The Development of Mathematics in Medieval Europe complements the previous collection of articles by Menso Folkerts Essays on Early Medieval Mathematics and deals with the development of mathematics in Europe from the 12th century to about 1500 In the 12th century European learning was greatly transformed by translations from Arabic into Latin Such translations in the field of mathematics and their influence are here described and analysed notably al Khwarizmi s Arithmetic through which Europe became acquainted with the Hindu Arabic numerals and Euclid s Elements Five articles are dedicated to Johannes Regiomontanus perhaps the most original mathematician of the 15th century and to his discoveries in trigonometry algebra and other fields The knowledge and application of Euclid s Elements in 13th and 15th century Italy are discussed in three studies while the last article treats the development of algebra in South Germany around 1500 where much of the modern symbolism used in algebra was developed

**Words, Texts, and Concepts Cruising the Mediterranean Sea** Gerhard Endress, 2004 The remarkable extension in depth and width of Muslim intellectual life can be fathomed and measured only against the background of what went on immediately before and simultaneously elsewhere or it will remain in any real sense unexplored This statement by the late Franz Rosenthal is in a sense the red thread of the present volume which unites 35 articles by renowned scholars of Islamic Studies Middle Eastern Languages and Civilizations and various allied fields of research in honour of a scholar congenial to Franz Rosenthal and exemplary in his scientific carefulness and integrity Dr Gerhard Endress Professor of Oriental Philology and Islamic Studies at the Ruhr University Bochum Central topics of the contributions include Arabic philosophy and its Greek sources and Latin reception the history and historiography of Arabic Islamic science and Islamic concepts of language knowledge science and pedagogy Other articles deal with qur anic studies Arabic lexicography and linguistics the history of Middle Eastern civilizations the medieval translation movements from Greek into Arabic and from Arabic into Latin as well as with political and eschatological theories of medieval Islam Rooted in different scientific traditions and methodological approaches the studies collected in this Festschrift form a vivid and stimulating synopsis of more than 1000 years of Middle Eastern and Mediterranean intellectual social and cultural history

*The Oxford Encyclopedia of Philosophy, Science, and Technology in Islam* Salim Ayduz, 2014 The main reference source for questions of Islamic philosophy science and technology amongst Western engaged readers and academics in general and legal researchers in particular

**The Legacy of Muslim Spain** Salma Khadra Jayyusi, 2021-12-06 The civilisation of medieval Muslim Spain is perhaps the most brilliant and prosperous of its age and has been essential to the direction which civilisation in medieval Europe took This volume is the first ever in any language to deal in a really comprehensive manner with all major aspects of Islamic civilisation in medieval Spain

**Vestigia Mathematica**

,2025-02-10      Mathematics And Its Teaching In The Muslim World Bruce R Vogeli,Mohamed E A El Tom,2020-06-25 This anthology reviews the history current states and plans for the development of mathematics education in the Muslim States in Africa the Middle East and Asia There is an introduction by Ahmed Djebbar the most prominent contemporary scholar of Muslim mathematics The chapters are written by respective national experts in mathematics education      Arabic Mathematical Sciences Richard Lorch,2024-12-11 This book deals with the mathematical sciences in medieval Islam and focuses on three main themes The first is that of the translation of texts from Greek into Arabic then from Arabic into Latin and close attention is paid to terminology and comparative vocabulary The other themes are those of the technology of the sphere and of astronomical instruments which are treated both from the mechanical and mathematical point of view Several of the articles combine these themes for instance the study of the self rotating sphere of al Khazini 12th century or that on the transmission of spherical trigonometry to the West Four articles also contain substantial texts with translation and commentary

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