

中國數學

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CHINESE MATHEMATICS A concise history

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CLARENDON PRESS • OXFORD
1987

Chinese Mathematics A Concise History

David Baud



Chinese Mathematics A Concise History:

Chinese Mathematics Yan Li, Shiran Du, 1987 This volume presents a record of mathematical developments in China over a period of more than 2000 years It goes into greater detail than ever previously available in English Because the emphasis in Chinese mathematics is on algorithms rather than proofs readers will find results such as Bezout's theorem and Horner's method appearing in a very different context from the familiar tradition of Euclidean deductive geometry The Chinese always preferred algebraic methods and by the 13th century A D they were the best algebraists in the world The original Chinese point of view is retained by the translators They have supplemented the text with short explanatory comments and references to all relevant reference sources available in the West An extensive bibliography is included creating a work which will appeal to general readers interested in Chinese history as well as historians of mathematics **A History of Chinese Mathematics** Jean-Claude Martzloff, 2007-08-17 Since the end of the 19th century a number of specialised journals albeit with a large audience have regularly included articles on the history of Chinese mathematics while a number of books on the history of mathematics include a chapter on the subject Thus the progressive increase in our knowledge of the content of Chinese mathematics has been accompanied by the realisation that as far as results are concerned there are numerous similarities between Chinese mathematics and other ancient and medieval mathematics For example Pythagoras theorem the double false position rules Hero's formulae and Ruffini Harner's method are found almost everywhere As far as the reasoning used to obtain these results is concerned the fact that it is difficult to find rational justifications in the original texts has led to the reconstitution of proofs using appropriate tools of present day elementary algebra Consequently the conclusion that Chinese mathematics is of a fundamentally algebraic nature has been ventured However in recent decades new studies particularly in China and Japan have adopted a different approach to the original texts in that they have considered the Chinese modes of reasoning as these can be deduced from the rare texts which contain justifications By studying the results and the methods explicitly mentioned in these texts hand in hand this Chinese and Japanese research has attempted to reconstruct the conceptions of ancient authors within a given culture and period without necessarily involving the convenient but often distorting social and conceptual framework of present day mathematics **A Concise History of Mathematics** Dirk Jan Struik, 1967 This compact well written history covers major mathematical ideas and techniques from the ancient Near East to 20th century computer theory surveying the works of Archimedes Pascal Gauss Hilbert and many others The author's ability as a first class historian as well as an able mathematician has enabled him to produce a work which is unquestionably one of the best Nature **A Concise History of Mathematics** Dirk J. Struik, 2012-06-28 This compact well written history first published in 1948 and now in its fourth revised edition describes the main trends in the development of all fields of mathematics from the first available records to the middle of the 20th century Students researchers historians specialists in short everyone with an interest in mathematics will find it engrossing

and stimulating Beginning with the ancient Near East the author traces the ideas and techniques developed in Egypt Babylonia China and Arabia looking into such manuscripts as the Egyptian Papyrus Rhind the Ten Classics of China and the Siddhantas of India He considers Greek and Roman developments from their beginnings in Ionian rationalism to the fall of Constantinople covers medieval European ideas and Renaissance trends analyzes 17th and 18th century contributions and offers an illuminating exposition of 19th century concepts Every important figure in mathematical history is dealt with Euclid Archimedes Diophantus Omar Khayyam Boethius Fermat Pascal Newton Leibniz Fourier Gauss Riemann Cantor and many others For this latest edition Dr Struik has both revised and updated the existing text and also added a new chapter on the mathematics of the first half of the 20th century Concise coverage is given to set theory the influence of relativity and quantum theory tensor calculus the Lebesgue integral the calculus of variations and other important ideas and concepts The book concludes with the beginnings of the computer era and the seminal work of von Neumann Turing Wiener and others The author's ability as a first class historian as well as an able mathematician has enabled him to produce a work which is unquestionably one of the best Nature Magazine *Fleeting Footsteps: Tracing The Conception Of Arithmetic And Algebra In Ancient China (Revised Edition)* Tian Se Ang, Lay Yong Lam, 2004-04-06 The Hindu Arabic numeral system 1 2 3 is one of mankind's greatest achievements and one of its most commonly used inventions How did it originate Those who have written about the numeral system have hypothesized that it originated in India however there is little evidence to support this claim This book provides considerable evidence to show that the Hindu Arabic numeral system despite its commonly accepted name has its origins in the Chinese rod numeral system This system was widely used in China from antiquity till the 16th century It was used by officials astronomers traders and others to perform addition subtraction multiplication division and other arithmetic operations and also used by mathematicians to develop arithmetic and algebra Based on this system numerous mathematical treatises were written Sun Zi suanjing The Mathematical Classic of Sun Zi written around 400 AD is the earliest existing work to have a description of the rod numerals and their operations With this treatise as a central reference the first part of the book discusses the development of arithmetic and the beginnings of algebra in ancient China and on the basis of this knowledge advances the thesis that the Hindu Arabic numeral system has its origins in the rod numeral system Part Two gives a complete translation of Sun Zi suanjing In this revised edition Lam Lay Yong has included an edited text of her plenary lecture entitled Ancient Chinese Mathematics and Its Influence on World Mathematics which was delivered at the International Congress of Mathematicians Beijing 2002 after she received the prestigious Kenneth O May Medal conferred by the International Commission on the History of Mathematics This should serve as a useful and easy to comprehend introduction to the book A Cultural History of Modern Science in China Benjamin A. Elman, 2009-07-01 In *A Cultural History of Modern Science in China* Elman has retold the story of the Jesuit impact on late imperial China circa 1600 1800 and the Protestant era in early modern China from the 1840s to 1900 in a concise and accessible form ideal for

the classroom **History of Mathematics and Its Contexts** Andrea Verdugo Rohrer, Joerg Zender, 2024-11-01 This book celebrates Gert Schubring's 80th birthday and honors his impactful contributions to the field of history of mathematics and its education. Recognized with the prestigious Hans Freudenthal Award in 2019, Schubring's academic work sets the tone for this volume. The thoughtfully curated articles in this collection offer insightful studies on textbooks and biographies of key figures in mathematics and mathematics education, contextualizing their significance within the broader historical landscape and providing the readers with a deeper understanding of the development of the history of mathematics and its education. Researchers as well as curious readers and students will find this collection to be a valuable resource in the field.

Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures Helaine Selin, 1997-07-31 The Encyclopaedia fills a gap in both the history of science and in cultural studies. Reference works on other cultures tend either to omit science completely or pay little attention to it, and those on the history of science almost always start with the Greeks, with perhaps a mention of the Islamic world as a translator of Greek scientific works. The purpose of the Encyclopaedia is to bring together knowledge of many disparate fields in one place and to legitimize the study of other cultures' science. Our aim is not to claim the superiority of other cultures but to engage in a mutual exchange of ideas. The Western academic divisions of science, technology, and medicine have been united in the Encyclopaedia because in ancient cultures these disciplines were connected. This work contributes to redressing the balance in the number of reference works devoted to the study of Western science and encourages awareness of cultural diversity. The Encyclopaedia is the first compilation of this sort, and it is testimony both to the earlier Eurocentric view of academia as well as to the widened vision of today. There is nothing that crosses disciplinary and geographic boundaries, dealing with both scientific and philosophical issues to the extent that this work does. xi PERSONAL NOTE FROM THE EDITOR Many years ago I taught African history at a secondary school in Central Africa.

Imagined Civilizations Roger Preston Hart, 2013-08-15 While the Jesuits claimed Xu as a convert, he presented the Jesuits as men from afar who had traveled from the West to China to serve the emperor.

The Chinese Roots of Linear Algebra Roger Hart, 2011-01-01 A monumental accomplishment in the history of non-Western mathematics, *The Chinese Roots of Linear Algebra* explains the fundamentally visual way Chinese mathematicians understood and solved mathematical problems. It argues convincingly that what the West discovered in the sixteenth and seventeenth centuries had already been known to the Chinese for 1,000 years. Accomplished historian and Chinese language scholar Roger Hart examines *Nine Chapters of Mathematical Arts*, the classic ancient Chinese mathematics text, and the arcane art of fangcheng, one of the most significant branches of mathematics in Imperial China. Practiced between the first and seventeenth centuries by anonymous and most likely illiterate adepts, fangcheng involves manipulating counting rods on a counting board. It is essentially equivalent to the solution of systems of N equations in N unknowns in modern algebra, and its practice, Hart reveals, was visual and algorithmic. Fangcheng practitioners viewed problems in two dimensions as an array.

of numbers across counting boards By cross multiplying these they derived solutions of systems of linear equations that are not found in ancient Greek or early European mathematics Doing so within a column equates to Gaussian elimination while the same operation among individual entries produces determinantal style solutions Mathematicians and historians of mathematics and science will find in *The Chinese Roots of Linear Algebra* new ways to conceptualize the intellectual development of linear algebra *Reviving Ancient Chinese Mathematics* Jiri Hudecek, 2014-07-25 Twentieth century China has been caught between a desire to increase its wealth and power in line with other advanced nations which by implication means copying their institutions practices and values whilst simultaneously seeking to preserve China's independence and historically formed identity Over time Chinese philosophers writers artists and politicians have all sought to reconcile these goals and this book shows how this search for a Chinese way penetrated even the most central least contested area of modernity science *Reviving Ancient Chinese Mathematics* is a study of the life of one of modern China's most admired scientific figures the mathematician Wu Wen Tsun Negotiating the conflict between progress and tradition he found a path that not only ensured his political and personal survival but which also brought him renown as a mathematician of international status who claimed that he stood outside the dominant western tradition of mathematics Wu Wen Tsun's story highlights crucial developments and contradictions in twentieth century China the significance of which extends far beyond the field of mathematics On one hand lies the appeal of radical scientific modernity mechanisation in all its forms and competitiveness within the international scientific community On the other is an anxiety to preserve national traditions and make them part of the modernisation project Moreover Wu's intellectual development also reflects the complex relationship between science and Maoist ideology because his turn to history was powered by his internalisation of certain aspects of Maoist ideology including its utilitarian philosophy of science This book traces how Wu managed to combine political success and international scientific eminence a story that has wider implications for a new century of increasing Chinese activity in the sciences As such it will be of great interest to students and scholars of Chinese history the history of science and the history and philosophy of mathematics **Questioning Science in East Asian Contexts** Yung Sik Kim, 2014-01-16 *Questioning Science in East Asian Contexts* brings together twelve essays written by Yung Sik Kim addressing various questions about the social and cultural contexts of science in East Asia Most of the essays deal with the relationship between science and Confucianism especially the roles that Confucian thought values and institutions have on the development of science Kim shows that this relationship is very complex and multifaceted and cannot be dealt with in a simplistic manner Kim offers comparative perspectives and discusses the problems of intercultural comparisons he demonstrates that in spite of the potential dangers that accompany these comparisons they should be made nonetheless as they allow for a better understanding of the situation in East Asia *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

from the Song through the Qing dynasties The fourteen case studies analyze concrete arguments defended or contested in areas ranging from historiography philosophy law and religion to natural studies literature and the civil examination system By examining uses of evidence habits of inference and the criteria by which some arguments were judged to be more persuasive than others the contributions recreate distinct cultures of reasoning Together they lay the foundations for a history of argumentative practice in one of the richest scholarly traditions outside of Europe and add a chapter to the as yet elusive global history of rationality *Science In China, 1600-1900: Essays By Benjamin A Elman* Benjamin A

Elman, 2015-05-07 Distinguished historian Benjamin A Elman s collective volume on the history of science in imperial China brings together over 30 years of historical literature on the subject With updates to the literature and new material including transcripts of podcasts and translated interview articles *Science in China* takes the reader on a journey starting in the early 17th century with the missionary efforts of the Jesuits in China and ending with the Protestant missions in the 19th century These two milestone encounters brought Western sciences to local Chinese scholars with great success in shaping modern Chinese science Elman studies the interaction between Western and Chinese sciences through philological research and evidence and treats the two encounters not as separate events but as a continuum of creative exchange of scientific knowledge and discourse *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 **Picturing Technology in China** Peter J. Golas, 2014-12-01 Although the history

of technological and scientific illustrations is a well established field in the West scholarship on the much longer Chinese experience is still undeveloped This work by Peter Golas is a short illustrated overview tracing the subject to pre Han inscriptions but focusing mainly on the Song Yuan Ming and Qing dynasties His main theme is that technological drawings developed in a different way in China from in the West largely because they were made by artists rather than by specialist illustrators or practitioners of technology He examines the techniques of these artists their use of painting woodblock prints and the book and what their drawings reveal about changing technology in agriculture industry architecture astronomical military and other spheres The text is elegantly written and the images about 100 in all are carefully chosen This is likely to

appeal to both scholars and general readers *The Sinosphere and Beyond* Joan Judge,Joachim Kurtz,Ori Sela,Dan Shao,Hugh Shapiro,2024-07-22 The history of East Asia can be most productively studied through a transnational translingual and transcultural approach to the region In *The Sinosphere and Beyond* twenty six leading and emerging scholars use such approaches in rich clusters of essays on Historiography Sino Japanese Encounters Law and Justice Politics Art Literature and Translation Each essay builds on the legacy of Joshua Fogel whose scholarship defined the contours of the Sinosphere in the Western world and beyond The collection will be of interest to scholars and students with specific research concerns within these broader rubrics from the towering progenitors of Japanese Sinology to gendered diplomatic and cultural dimensions of Sino Japanese encounters from Sinitic poetry to legal culture and revolutionary life from art commerce and levels of literary expression to the quandaries of translation In addition to offering a broad range of case studies the volume is testimony to the methodological importance of a dynamic intra and transregional approach for an understanding of the layered history of East Asia **Cultures of Computation and Quantification in the Ancient World** Karine

Chemla,Agathe Keller,Christine Proust,2023-01-01 This book sheds light on the variety of mathematical cultures in general To do so it concentrates on cultures of computation and quantification in the ancient world mainly in ancient China South Asia and the Ancient Near East and offers case studies focused on numbers quantities and operations in particular in relation to mathematics as well as administrative and economic activities The various chapters focus on the different ways and contexts of shaping numbers and quantities and on the procedures applied to them The book places special emphasis on the processes of emergence of place value number systems evidenced in the three geographical areas under study All these features yield essential elements that will enable historians of mathematics to further capture the diversity of computation practices in their contexts whereas previous historical approaches have tended to emphasize elements that displayed uniformity within civilizational blocks The book includes editions and translations of texts some of them published here for the first time maps and conventions for editions of ancient texts It thereby offers primary sources and methodological tools for teaching and learning The volume is aimed at historians and philosophers of science and mathematics historians of the ancient worlds historians of economics sinologists indologists assyriologists as well as undergraduate graduate students and teachers in mathematics the history and philosophy of science and mathematics and in the history of ancient worlds **The First Sourcebook on Asian Research in Mathematics Education - 2 Volumes** Bharath Sriraman,Jinfa Cai,Kyeonghwa Lee,Lianghuo Fan,Yoshinori Shimizu,Chap Sam Lim,K. Subramaniam,2015-08-01 Mathematics and Science education have both grown in fertile directions in different geographic regions Yet the mainstream discourse in international handbooks does not lend voice to developments in cognition curriculum teacher development assessment policy and implementation of mathematics and science in many countries Paradoxically in spite of advances in information technology and the flat earth syndrome old distinctions and biases between different groups of researcher s persist In addition limited accessibility to

conferences and journals also contribute to this problem The International Sourcebooks in Mathematics and Science Education focus on under represented regions of the world and provides a platform for researchers to showcase their research and development in areas within mathematics and science education The First Sourcebook on Asian Research in Mathematics Education China Korea Singapore Japan Malaysia and India provides the first synthesized treatment of mathematics education that has both developed and is now prominently emerging in the Asian and South Asian world The book is organized in sections coordinated by leaders in mathematics education in these countries and editorial teams for each country affiliated with them The purpose of unique sourcebook is to both consolidate and survey the established body of research in these countries with findings that have influenced ongoing research agendas and informed practices in Europe North America and other countries in addition to serving as a platform to showcase existing research that has shaped teacher education curricula and policy in these Asian countries The book will serve as a standard reference for mathematics education researchers policy makers practitioners and students both in and outside Asia and complement the Nordic and NCTM perspectives

Using History to Teach Mathematics Victor J. Katz, 2000-09-21 This volume examines how the history of mathematics can find application in the teaching of mathematics itself

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