Chinese Mathematics

Chinese mathematics has developed greatly since at least 100 BC. Although the Chinese refer back to their ancient texts, many of which were written on strips of bamboo, they are constantly coming up with ways of working out problems. One of the earliest Chinese mathematicians was a man named Luoxia Hong (130BC – 30BC). He designed a new calendar for the Emperor, which featured 12 months, based on a cycle of 12 years. This inspired many people to design calendars and the one we have today.

The Chinese also came up with a rule called the Gougu Rule. This is the Chinese version of Pythagoras. Liu Hui (220AD – 280AD) tried to find pi to the nearest number. He eventually got to 3.14159, which in those days was thought to be an incredible achievement.

Jeremy

A History Of Chinese Mathematics

Yan Li,Shiran Du

A History Of Chinese 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 History of Chinese Mathematics** Jean-Claude Martzloff,1995   **A history of Chinese mathematics** Pao-tsung Ch'ien,1932   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   Chinese Mathematics History Zhi Dao, The book provides highlights on the key concepts and trends of evolution in Chinese Mathematics History as one of the series of books of China Classified Histories   **Chinese Mathematics in the Thirteenth Century** Ulrich Libbrecht,2005-01-01 An exploration of the life and work of the thirteenth century mathematician Ch in this fascinating book examines a range of mathematical issues that reflect Chinese life of a millennium ago Its first part consists of four closely related studies of Ch in and his work The first study brings together what is known of the mathematician s life and of the history of his only extant work the Shu shu chiu chang Subsequent studies examine the

entire range of mathematical techniques and problems found within Ch in s book The core of this book consists of an in depth study of what modern mathematicians still refer to as the Chinese remainder theorem for the solution of indeterminate equations of the first degree This was Ch in s most original contribution to mathematics so original that no one could correctly explain Ch in s procedure until the early nineteenth century This volume s concluding study unites information on artisanal economic administrative and military affairs dispersed throughout Ch in s writings providing rare insights into thirteenth century China   **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   *Fleeting Footsteps: Tracing The Conception Of Arithmetic And Algebra In Ancient China* Tian Se Ang,Lay Yong Lam,1992-10-07 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 in spite of its commonly accepted name has its origins in the Chinese rod numeral system This system was in use in China from antiquity till the 16th and 17th century It was used by officials astronomers traders and others to perform addition subtraction multiplication division and other arithmetric operations and also used by mathematicians to develop arithmetic and algebra 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 *A History of Chinese Science and Technology* Yongxiang Lu,2014-10-14 A History of Chinese Science and Technology Volumes 1 2 3 presents 44 individual lectures beginning with Ancient Chinese Science and Technology in the Process of Human Civilizations and an Overview of Chinese Science and Technology and continuing with in depth discussions of several issues in the History of Science and the Needham Puzzle interspersed with topics on Astronomy Arithmetic Agriculture and Medicine The Four Great Inventions and various technological areas closely related to clothing food shelter and transportation This book is the most authoritative work on the history of Chinese Science and Technology It is the Winner of the China Book Award the Shanghai Book Award 1st prize and the Classical China International Publishing Project GAPP General Administration of Press and Publication of China and offers an essential resource for academic researchers and non experts alike It originated with a series of 44 lectures presented to top Chinese leaders which received very positive feedback Written by top Chinese scholars in their respective fields from the Institute for the History of Natural Sciences Chinese Academy of Sciences and many other respected Chinese organizations the book is intended for scientists researchers and postgraduate students working in the history of science philosophy of science and technology and related disciplines Yongxiang Lu is a professor former president and member of the Chinese Academy of Sciences CAS and Chinese Academy of Engineering CAE and Vice Chairman of the National Congress of China **History of Chinese Mathematics** Lie Yen,1955 *An introduction to the history of chinese mathematics* ,1986 **The Mathematics of Egypt, Mesopotamia, China, India, and Islam** Victor J. Katz,Annette Imhausen,2007-08-05 In recent decades it has become obvious that mathematics has always been a worldwide activity But this is the first book to provide a substantial collection of English translations of key mathematical texts from the five most important ancient and medieval non Western mathematical cultures and to put them into full historical and mathematical context The Mathematics of Egypt Mesopotamia China India and Islam gives English readers a firsthand understanding and appreciation of these cultures important contributions to world mathematics The five section authors Annette Imhausen Egypt Eleanor Robson Mesopotamia Joseph Dauben China Kim Plofker India and J Lennart Berggren Islam are experts in their fields Each author has selected key texts and in many cases provided new translations The authors have also written substantial section introductions that give an overview of each mathematical culture and explanatory notes that put each selection into context This authoritative commentary allows readers to understand the sometimes unfamiliar mathematics of these civilizations and the purpose and significance of each text Addressing a critical gap in the mathematics literature in English this book is an essential resource for anyone with at least an undergraduate

degree in mathematics who wants to learn about non Western mathematical developments and how they helped shape and enrich world mathematics The book is also an indispensable guide for mathematics teachers who want to use non Western mathematical ideas in the classroom **Astronomy and Calendars – The Other Chinese Mathematics** Jean-Claude Martzloff,2016-09-01 Presented from the viewpoint of the history of mathematics this book explores both epistemological aspects of Chinese traditional mathematical astronomy and lunisolar calendrical calculations The following issues are addressed 1 connections with non Chinese cultural areas 2 the possibility or impossibility of using mathematics to predict astronomical phenomena a question that was constantly raised by the Chinese from antiquity through medieval times 3 the modes of representation of numbers and in particular the zero found in the context of Chinese calendrical calculations and 4 a detailed analysis of lunisolar calendrical calculations Fully worked out examples and comparisons between the results of calculations and the content of Chinese historical calendars from various periods are provided Traditional Chinese calendrical and mathematical astronomy consists of permanently reformed mathematical procedures designed to predict but not explain phenomena pertaining to astronomy and related areas Yet despite appearances models of the mathematical techniques hidden behind this voluminous corpus reveal that they depend on a limited number of clear cut mathematical structures Although only a small fraction of these techniques have been fully studied what is known surprisingly broadens our knowledge of the history of Chinese mathematics Sinologists interested in the history of Chinese science and anyone interested in the history of Chinese mathematics the Chinese calendar and the history of Chinese mathematical astronomy from its origin 104 BC to its European reform AD 1644 will find this book very useful The present English language edition is a fully revised and updated version of the French original Even though this is a research monograph in sinology no particular sinological background is required although a basic understanding of concrete mathematics is needed From the reviews of the French edition This is a demanding rigorous book to read worth the concentrated study it requires The rewards are not only in the details but in the general overview that it provides Joseph Dauben EASTM 2011 first Work in a Western language to turn to for anyone interested in the details of Chinese calendrical computations Benno Van Dalen ISIS 2011 Martzloff s careful scholarship and his overall look at the calendar beyond astronomical calculations make this book a most valuable contributions to a field of increasing interest U D Ambrosio Mathematical Reviews 2013 **Chinese Mathematical Astrology** Ho Peng Yoke,2004-03-01 Though there are a number of well written works on Chinese divination there are none that deal with the three sophisticated devices that were employed by the Chinese Astronomical Bureau in the eleventh century and for hundreds of years thereafter Chinese experts applied the methods associated with these devices to both weather forecasting and to the interpretation of human affairs Hidden by a veil of secrecy these methods have always been relatively little known other than by their names The first work in any language to explore these three methods known as sanshi three cosmic boards this book sheds light on a topic which has been shrouded in mystery for centuries having been

kept secret for many years by the Chinese Astronomical Bureau **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 **The Celestial Abacus: Unraveling the Enigmatic History of Chinese Mathematics** Pasquale De Marco, Embark on a captivating journey through the annals of Chinese mathematics spanning from ancient times to the modern era in this comprehensive and engaging book Discover the remarkable contributions of Chinese mathematicians to various branches of mathematics including arithmetic algebra geometry trigonometry and calculus Explore the origins and evolution of Chinese mathematics tracing its roots back to the earliest mathematical records in the Shang Dynasty Witness the flowering of mathematical thought during the Han Dynasty the golden age of Chinese mathematics during the Tang Dynasty and the rise of practical mathematics during the Song Dynasty Delve into the influence of Mongol rule on Chinese mathematics during the Yuan Dynasty and the decline of traditional mathematics during the Ming Dynasty Uncover the revival of mathematical studies during the Qing Dynasty and the transformation of Chinese mathematics during the Republican Era Learn about the development of modern mathematics in the People s Republic of China and the challenges and opportunities facing Chinese mathematics today This book provides a comprehensive overview of the history of Chinese mathematics making it accessible to readers with diverse backgrounds Whether you are a mathematician a historian a student or simply someone with a curiosity about the history of science this book offers a wealth of knowledge and insights into the captivating world of Chinese mathematics With its clear and engaging writing style this book invites readers to explore the fascinating world of Chinese mathematics and appreciate the ingenuity and creativity of Chinese mathematicians throughout the ages Discover the unique characteristics of Chinese mathematics its emphasis on practical applications its use of visual representations and its development of innovative computational techniques Delve into the role of mathematics in Chinese philosophy art and literature revealing the deep connections between mathematics and other aspects of Chinese culture This book is an essential resource for anyone interested in the history of mathematics Chinese culture or the interdisciplinary connections between mathematics and other fields If you like this book write a review *Chinese Studies in the History and Philosophy of Science and Technology* Fan Dainian,Robert S. Cohen,1996-09-30 The articles in this collection were all selected from the first five volumes of the Journal of Dialectics of Nature published by the Chinese Academy of Sciences between 1979 and 1985 The Journal was established in 1979 as a comprehensive theoretical publication concerning the history philosophy and sociology of the natural sciences It began publication as a response to China s reform particularly the policy of opening to the outside world Chinese scholars began to undertake distinctive original research in these fields This collection provides a cross section of their efforts during the initial phase To enable western scholars to understand the historical process of this change in Chinese academics Yu

Guangyuan s On the Emancipation of the Mind and Xu Liangying s Essay on the Role of Science and Democracy in Society have been included in this collection Three of the papers included on the philosophy of science are discussions of philosophical issues in cosmology and biology by scientists themselves The remaining four are written by philosophers of science and discuss information and cognition homeostasis and Chinese traditional medicine the I Ching Yi Jing and mathematics etc Papers have been selected on the history of both classical and modern science and technology the most distinctive of which are macro comparisons of the development of science in China and the west Some papers discuss the issue of the demarcation of periods in the history of science the history of ancient Chinese mathematics astronomy metallurgy machinery medicine etc Others discuss the history of modern physics and biology the history of historiography of science in China and the history of regional development of Chinese science and technology Also included are biographies of three post eighteenth century Chinese scholars Li Shanlan 1811 1882 Hua Hengfang 1833 1902 and Cai Yuanpei 1868 1940 who contributed greatly to the introduction of western science and scholarship to China In addition three short papers have been included introducing the interactions between Chinese scholars and three great western scientists Niels Bohr Norbert Wiener and Robert A Millikan **Science and Civilisation in China: Volume 3, Mathematics and the Sciences of the Heavens and the Earth** Joseph Needham,1959 After two volumes mainly introductory Dr Needham now embarks upon his systematic study of the development of the natural sciences in China The Sciences of the Earth follow geography and cartography geology seismology and mineralogy Dr Needham distinguishes parallel traditions of scientific cartography and religious cosmography in East and West discussing orbocentric wheel maps the origins of the rectangular grid system sailing charts and relief maps Chinese survey methods and the impact of Renaissance cartography on the East Finally and here Dr Needham s work has no Western predecessors there are full accounts of the Chinese contribution to geology and mineralogy On Their Own Terms Benjamin A. Elman,2009-07-01 Since the mid 19th century imperial reformers Republicans Guomindang party cadres and Communists have all prioritized science and technology Elman offers an account of the evolution of native Chinese science over four centuries under the influence of missionaries In the end he argues the Chinese produced modern science on their own terms **Reader's Guide to the History of Science** Arne Hessenbruch,2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

Reviewing **A History Of Chinese Mathematics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**A History Of Chinese Mathematics**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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