

Mathematical Notations

Notation	Name	Meaning
$\lfloor x \rfloor$	floor	largest integer not larger than x
$\lceil x \rceil$	ceiling	smallest integer not smaller than x
$\text{round}(x)$	round	nearest integer to x , that is, $\lfloor x + 0.5 \rfloor$
$x \bmod y$	remainder	$x - y\lfloor x/y \rfloor$
$x \bmod [1 \dots y]$	adjusted remainder	y if $x \bmod y = 0$, $x \bmod y$ otherwise
$x \bmod [a \dots b)$	interval mod	x if $a = b$, $a + (x - a) \bmod (b - a)$ otherwise
$\text{gcd}(x, y)$	greatest common divisor	x if $y = 0$, $\text{gcd}(y, x \bmod y)$ otherwise
$\text{lcm}(x, y)$	least common multiple	$xy/\text{gcd}(x, y)$
$ x $	absolute value	unsigned value of x
$\text{sign}(x)$	sign	-1 when x is negative, $+1$ when x is positive, 0 when x is 0
$i^\circ j' k''$	angle	i degrees, j arc minutes, and k arc seconds
$\varphi(n)$	totient function	number of positive integers less than n and relatively prime to it
π	pi	ratio of circumference of circle to diameter
$\sin x$	sine	sine of x , given in degrees
$\cos x$	cosine	cosine of x , given in degrees
$\tan x$	tangent	tangent of x , given in degrees
$\arcsin x$	arc sine	inverse sine of x , in degrees

continued

Calendrical Calculations

Steven S Skiena



Calendrical Calculations:

Calendrical Calculations Nachum Dershowitz, Edward M. Reingold, 2007-12-10 A valuable resource for working programmers as well as a fount of useful algorithmic tools for computer scientists this new edition of the popular calendars book expands the treatment of the previous edition to new calendar variants generic cyclical calendars and astronomical lunar calendars as well as the Korean Vietnamese Aztec and Tibetan calendars The authors frame the calendars of the world in a completely algorithmic form allowing easy conversion among these calendars and the determination of secular and religious holidays LISP code for all the algorithms are available on the Web **Calendrical Calculations** Nachum Dershowitz, Edward M. Reingold, 2008 Expanded coverage includes generic cyclical calendars astronomical lunar calendars and the Korean Vietnamese Aztec and Tibetan calendars *Calendrical Calculations* Edward M. Reingold, Nachum Dershowitz, 2018-04-05 These algorithmic tools for programmers astronomers and calendar enthusiasts include more than forty calendars and astronomical functions *Calendrical Calculations* Edward M. Reingold, Nachum Dershowitz, 2018-04-05 An invaluable resource for working programmers as well as a fount of useful algorithmic tools for computer scientists astronomers and other calendar enthusiasts The Ultimate Edition updates and expands the previous edition to achieve more accurate results and present new calendar variants The book now includes coverage of Unix dates Italian time the Akan Icelandic Saudi Arabian Umm al Qura and Babylonian calendars There are also expanded treatments of the observational Islamic and Hebrew calendars and brief discussions of the Samaritan and Nepalese calendars Several of the astronomical functions have been rewritten to produce more accurate results and to include calculations of moonrise and moonset The authors frame the calendars of the world in a completely algorithmic form allowing easy conversion among these calendars and the determination of secular and religious holidays LISP code for all the algorithms is available in machine readable form

Calendrical Calculations Millennium Edition Edward M. Reingold, Nachum Dershowitz, 2001-08-06 This book makes accurate calendrical algorithms readily available for computer use Calendrical Calculations Nachum Dershowitz, Edward M. Reingold, 1997-07-28 The purpose of this book is to present in a unified completely algorithmic form a description of thirteen calendars and how they relate to one another the present civil calendar Gregorian the recent ISO commercial calendar the old civil calendar Julian the Coptic and virtually identical Ethiopic calendars the Islamic Moslem calendar the Baha i the Hebrew Jewish calendar the Mayan calendars the French Revolutionary calendar the Chinese calendar and both the old mean and new true Hindu Indian calendars Easy conversion among these calendars is a by product of the approach as is the determination of secular and religious holidays Calendrical Calculations makes accurate calendrical algorithms readily available for computer use This volume will be a valuable resource for working programmers as well as a fount of useful algorithmic tools for computer scientists **Calendrical Calculations Millennium edition** Edward M. Reingold, Nachum Dershowitz, 2001-08-06 This new edition of the successful calendars book expands the treatment of the previous edition to

new calendar variants It frames the calendars of the world in a completely algorithmic form The authors describe fourteen calendars and how they relate to one another the present civil calendar Gregorian the recent ISO commercial calendar the old civil calendar Julian the Coptic and virtually identical Ethiopic calendars the Islamic Moslem calendar the Baha i the Hebrew Jewish calendar the Mayan calendars the French Revolutionary calendar the Chinese calendar and both the old mean and new true Hindu Indian calendars Easy conversion among these calendars is a by product of the approach as is the determination of secular and religious holidays Calendrical Calculations makes accurate calendrical algorithms readily available for computer use with LISP and Java code for all the algorithms included on CD and updates available on the Web

The Algorithm Design Manual Steven S Skiena,2009-04-05 This newly expanded and updated second edition of the best selling classic continues to take the mystery out of designing algorithms and analyzing their efficacy and efficiency Expanding on the first edition the book now serves as the primary textbook of choice for algorithm design courses while maintaining its status as the premier practical reference guide to algorithms for programmers researchers and students The reader friendly Algorithm Design Manual provides straightforward access to combinatorial algorithms technology stressing design over analysis The first part Techniques provides accessible instruction on methods for designing and analyzing computer algorithms The second part Resources is intended for browsing and reference and comprises the catalog of algorithmic resources implementations and an extensive bibliography NEW to the second edition Doubles the tutorial material and exercises over the first edition Provides full online support for lecturers and a completely updated and improved website component with lecture slides audio and video Contains a unique catalog identifying the 75 algorithmic problems that arise most often in practice leading the reader down the right path to solve them Includes several NEW war stories relating experiences from real world applications Provides up to date links leading to the very best algorithm implementations available in C C and Java

Calendrical Calculations, II Edward M. Reingold, Stewart Clamen, University of Illinois at Urbana-Champaign. Department of Computer Science,1992

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 **Explanatory Supplement to the Astronomical Almanac** United States Naval Observatory. Nautical Almanac Office, Great Britain. Nautical Almanac Office, 1992 This well schooled text provides a detailed description of how to perform practical astronomy or spherical astronomy It is an authoritative source on astronomical phenomena and calendars *Writing from Invention to Decipherment* Silvia Ferrara, Barbara Montecchi, Miguel Valerio, 2024-08-27 This is an open access title available under the terms of a CC BY NC ND 4.0 International licence It is free to read on the Oxford Academic platform and offered as a free PDF download from OUP and selected open access locations *Writing from Invention to Decipherment* contains a wealth of global scholarship on ancient writing systems from China Mesopotamia Central America and the Mediterranean to more recent newly created scripts such as the Rongorongo from Easter Island the Caroline Island scripts as well as the alphabet The aim is to dig into the foundations of writing showcasing the complexities and varieties of scripts from their invention to the potential decipherment of poorly understood scripts The volume offers state of the art research on undeciphered scripts from the Aegean as for example Cretan Hieroglyphic and Linear A or not completely deciphered as for example Maya scripts From a methodological perspective these contributions lay out how and why writing was invented who used it and to what ends Here writing is presented as a multi modal cultural phenomenon that intersects and transcends neat discipline boundaries within an inclusive approach bridging archaeology linguistics epigraphy and cognitive studies [The Discovery of Chinese Logic](#) Joachim Kurtz, 2011-07-27 Until 1898 Chinese and foreign scholars agreed that China had never known needed or desired a field of study similar in scope and purpose to European logic Less than a decade later Chinese literati claimed that the discipline had been part of the empire s learned heritage for more than two millennia This book analyzes the conceptual ideological and institutional transformations that

made this drastic change of opinion possible and acceptable Reconstructing the discovery of Chinese logic as a paradigmatic case of the epistemic shifts that continue to shape interpretations of China's intellectual history it offers a fresh view of the formation of modern academic discourses in East Asia and adds a neglected chapter to the global histories of science and philosophy

Li, Qi and Shu Peng Yoke Ho, 2000-01-01 Fascinating introduction to traditional Chinese concepts of li qi shu yin yang wuxing and yijing Other topics covered Chinese mathematics astronomy and astrology alchemy magic elixirs and the search for immortality

Seki, Founder of Modern Mathematics in Japan Eberhard Knobloch, Hikosaburo Komatsu, Dun Liu, 2013-11-13 Seki was a Japanese mathematician in the seventeenth century known for his outstanding achievements including the elimination theory of systems of algebraic equations which preceded the works of tienne B zout and Leonhard Euler by 80 years Seki was a contemporary of Isaac Newton and Gottfried Wilhelm Leibniz although there was apparently no direct interaction between them The Mathematical Society of Japan and the History of Mathematics Society of Japan hosted the International Conference on History of Mathematics in Commemoration of the 300th Posthumous Anniversary of Seki in 2008 This book is the official record of the conference and includes supplements of collated texts of Seki's original writings with notes in English on these texts Hikosaburo Komatsu Professor emeritus The University of Tokyo one of the editors is known for partial differential equations and hyperfunction theory and for his study on the history of Japanese mathematics He served as the President of the International Congress of Mathematicians Kyoto 1990

Prognostication in the Medieval World Matthias Heiduk, Klaus Herbers, Hans-Christian Lehner, 2020-11-09 Two opposing views of the future in the Middle Ages dominate recent historical scholarship According to one opinion medieval societies were expecting the near end of the world and therefore had no concept of the future According to the other opinion the expectation of the near end created a drive to change the world for the better and thus for innovation Close inspection of the history of prognostication reveals the continuous attempts and multifold methods to recognize and interpret God's will the prodigies of nature and the patterns of time That proves on the one hand the constant human uncertainty facing the contingencies of the future On the other hand it demonstrates the firm belief during the Middle Ages in a future which could be shaped and even manipulated The handbook provides the first overview of current historical research on medieval prognostication It considers the entangled influences and transmissions between Christian Jewish Islamic and non monotheistic societies during the period from a wide range of perspectives An international team of 63 renowned authors from about a dozen different academic disciplines contributed to this comprehensive overview

Discovering Heavenly Mandate Yinong Huang, 2025-05-19 This book adopts a multidisciplinary approach incorporating knowledge and techniques from disciplines such as astronomy and history The purpose of astrological divination is to discern the will of the heavens and its subjects are the ruling class or the entire social body of a nation The selection of auspicious methods is aimed at seeking good fortune and avoiding misfortune with its influence ranging from the imperial family to the common people By comparing them with ancient Chinese textual records it

seeks to verify their authenticity Based on this foundation the book explores the origins of certain important astronomical events and divinatory behavioral patterns in ancient times as well as the reasoning behind the actions of ancient Chinese people Overall this book provides significant inspiration and reference for scholars and researchers in the field of history of social astronomy in China and history of Sino Western exchanges in terms of ideas and research methodologies

Towards an Islamic Lunisolar Calendar Hisham Abad, 2021-04-10

The Calendar was invented in ancient times to allow nations to pace their economic and social activities with climatic seasons Throughout the history of civilizations much depended on organizing and administering an accurate calendar Hunter gatherers needed the calendar to predict the migrations of herds of wild animals As humanity advanced farming communities required calendars to predict the coming of rain or the time of the flooding of rivers Traders and seafaring communities needed to map the best time of the year to tackle the dangers of seas when sailing far from home In contemporary times of globalization calendars have become even more critical in optimizing the complex supply chains of local and global production cycles Oral traditions ascertain that the Arabs of the Arabian Peninsula used a rudimentary lunisolar calendar called in the literature the Arabian Calendar Like with all nations the lunisolar Arabian Calendar helped the Arabs organize their meager resources in the best ways possible For example research showed that the ajj season and its pan Arabian markets were scheduled to coincide with the date harvesting season peaking from July to September The abundance of the date harvest available in this period along with assigning the concept of inviolability to the Arabian months spanning this season allowed them to travel across Arabia to Mecca to trade in the pan Arabian markets and to participate in the religious rituals of their pilgrimage the ajj It is asserted in this book that Prophet Mu ammad followed the lunisolar Arabian Calendar all his life At the end of the tenth year after he migrated from Mecca to Med na and during his Farewell Pilgrimage the Qur n sternly abolished the process of intercalation i e the Nas the very process which allowed the Arabs to organize their various economic and religious activities When Caliph Umar ibn al Kha b initiated the Hijri Calendar seven years after Prophet Mu ammad death i e in 17 AH he founded it as purely lunar which meant its months were allowed to float within the solar year Caliph Umar is famous for his zeal in protecting the fundamental Islamic principle of monotheism This I show was the reason for introducing the Hijri Calendar as purely lunar because Nas i e Quraysh s method of intercalation was hopelessly entangled with the polytheistic religion of Quraysh the Prophet s tribe and the guardian of the holy places in Mecca and its environs The harmful effects of following the purely lunar Hijri Calendar were realized from early on But the prohibition of Nas inhibited the early Islamic caliphs from reforming the Hijri Calendar This book explores the history of the Arabian Calendar and its intimate connection with the Hijri Calendar The main findings of this book are as follows

- 1 The main ajj shrines in Macca are aligned in the direction of sunrises and sunsets of the Summer Solstice day
- 2 Quraysh intercalated its Arabian Calendar by forcing the Summer Solstice SS Day to occur within the 11th month of the Arabian Calendar Shaww l

The Nas month was added when the onset of the SS was about to transfer to into the

11th month Dh l Qa da 3 The onset of the SS day was determined through the sunset alignment along the line joining the posts of al Wos and al Aqaba Jamar t and also by observing the sun rising from behind the peak of mount Thab r from the location of the sacrificial altar of pre Islamic Mina 4 The Prophet arrived in his migration from Mecca to Med na on the Days of sh r which corresponded to the dates of 8th of Rab I the 10th of the Hebrew month Tishri and to the 23rd of September 632 5 The epoch of the Hijri Calendar must be adjusted back by two days from the epoch used so far 6 The Farewell Pilgrimage occurred in autumn on September 4 632 CE not in spring on March 11 632 CE Postponement in Perpetuality: the Buddha's Prophecy of the End of Buddhism and Its Transmission in East Asia Yi Liu,2025-03-27 The Buddha prophesied that his teachings would vanish a few hundred years after his passing creating an existential dilemma for Chinese Buddhists on the brink of Buddhism s disappearance This book examines the origins of this prophecy and the famie end of Buddhism belief in Indian and Central Asian Buddhism and the centuries long struggle of Chinese Buddhists to interpret and adapt this prophecy This resulted in the unique East Asian Buddhist belief of mofa the final age of Buddhism which profoundly influenced medieval China and Japan *Calendar and Community* Sacha Stern,2001-10-04 Calendar and Community traces the development of the Jewish calendar from its origins until it reached in the tenth century CE its present form Drawing on a wide range of often neglected sources literary documentary epigraphic Jewish Graeco Roman and Christian it is the first comprehensive work to have been written on the subject It will be useful not only to historians and epigraphists for the interpretation of early Jewish datings but also as a historical study of early Judaism in its own right Its main theme is that the Jewish calendar evolved in the course of this period from considerable diversity with a variety of solar and lunar calendars to unity with the normative rabbinic calendar The unification of the calendar was one element in the unification of Jewish identity in later antiquity and the early medieval world

Calendrical Calculations Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Calendrical Calculations**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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