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this revealing work examines an approach from ancient astronomy to what was then a particularly important question namely that of understanding the relationship between the position in the ecliptic and the time it takes for a fixed length of the ecliptic beginning at that point to rise above the eastern horizon schemes known as rising time schemes were used to give lengths of the celestial equator corresponding to each of the twelve zodiacal signs which make up the ecliptic this book investigates the earliest known examples of these schemes which come from babylonia and date to the mid to late first millennium bc making an important contribution to our knowledge of astronomy in the ancient world this volume includes editions and translations of all of the known babylonian rising time texts including several texts that are identified for the first time through a close examination of the preserved texts it has been possible to reconstruct the complete babylonian rising time scheme this reconstruction is

unprecedented in its completeness and it is also now possible to situate the scheme within a genre of babylonian astronomy known as schematic astronomy which presents theoretical descriptions of the astronomical phenomena the unique discoveries and fresh explorations in this book will be of interest to historians of ancient astronomy scholars of babylonian history and those investigating the origins of scientific thought

babylonian astronomy explores how ancient mesopotamian civilizations meticulously observed the night sky creating astronomical records that laid the foundation for later scientific revolutions the book reveals the babylonians remarkable precision in astronomical observation and their sophisticated mathematical techniques their use of a sexagesimal base 60 number system for example allowed for advanced calculations and predictions of celestial events this knowledge wasn't confined to babylonia the book details its transmission to other cultures particularly influencing greek and asian astronomy the book's approach involves historical context and detailed analysis of cuneiform texts and astronomical diaries offering a comprehensive view of babylonian contributions it delves into the social and religious roles of astronomy in babylonian society including its connections to astrology and calendar systems the central argument highlights that babylonian astronomy was a highly refined system of empirical observation and mathematical prediction not a primitive endeavor the book progresses from the historical context and methodology through the development of mathematical techniques to the transmission of babylonian knowledge to the greeks and its influence on astronomical practices in asia

the collection of papers assembled here on a variety of topics in ancient and medieval astronomy was originally suggested by noel swerdlow of the university of chicago he was also instrumental in making a selection which would in general be on the same level as my book the exact sciences in antiquity it may also provide a general background for my more technical history of ancient mathematical astronomy and for my edition of astronomical cuneiform texts several of these republished articles were written because i wanted to put to rest well entrenched historical myths which could not withstand close scrutiny of the sources examples are the supposed astronomical origin of the egyptian calendar see 9 the discovery of precession by the babylonians 16 and the simplification of the ptolemaic system in copernicus de revolutionibus 40 in all of my work i have striven to present as accurately as i could what the original sources reveal which is often very different from the received view thus in 32 discussion of the technical terminology illuminates the meaning of an ancient passage which has been frequently misused to support modern theories about ancient heliocentrism in 33 an almost isolated instance reveals how greek world maps really looked and in 43 the alexandrian easter computus held in awe by many historians is shown from ethiopic sources to be based on very simple procedures

this book contains new translations and a new analysis of the procedure texts of babylonian mathematical astronomy the earliest known form of mathematical astronomy of the ancient world the translations are based on a modern approach incorporating recent insights from assyriology and translation science the work contains updated and expanded interpretations of the astronomical algorithms and investigations of previously ignored linguistic mathematical and other aspects of the procedure texts special attention is paid to issues of mathematical representation and over 100 photos of cuneiform tablets dating from 350-50 bce are presented in 2-3 years the author intends to continue his study of babylonian mathematical astronomy with a new publication which will contain new editions and reconstructions of approx 250 tabular texts and a new philological astronomical and mathematical analysis of these texts tabular texts are end products of babylonian math astronomy computed with algorithms that are

formulated in the present volume procedure texts

focusing on greece and babylonia this book provides a new cross cultural approach to the intellectual history of the hellenistic world

mul apin written sometime before the 8th century bc was the most widely copied astronomical text in ancient mesopotamia a compendium including information such as star lists descriptions of planetary phases mathematical schemes for the length of day and night a discussion of the luni solar calendar and rules for intercalation and a short collection of celestial omens this book contains an introductory essay followed by a new edition of the text and a facing page transliteration and english translation finally the book contains a new and detailed commentary on the text this is a fascinating study and an important resource for anyone interested in the history of astronomy

babylonian time explores the origins of our modern timekeeping methods revealing the sophisticated astronomical and mathematical systems of ancient mesopotamia it details how the babylonians ingeniously predicted eclipses and shaped our perception of time the book highlights the development and application of their sexagesimal system a base 60 number system which influenced everything from measuring angles to dividing time into hours minutes and seconds â a legacy still present today it further shows how meticulous observations recorded on cuneiform tablets enabled these predictions and advanced their calendar systems the book provides historical context explaining the social and political structure of ancient mesopotamia and the role of priests and scribes in astronomical observation it progresses by examining babylonian mathematical techniques for predicting eclipses exploring their calendar systems used to regulate agricultural cycles and religious observances and analyzing the transmission of babylonian astronomical knowledge to other cultures including the greeks by examining cuneiform texts and archaeological findings babylonian time demonstrates how echoes of babylonian thought are still audible in our daily lives

this is a new release of the original 1874 edition

portfolio of 8 charts accompanies v 83

celestial divination in the form of omens from lunar planetary astral and meteorological phenomena was central to mesopotamian cuneiform scholarship and science from the late second millennium bce into the hellenistic period beyond the boundaries of ancient mesopotamia the ideas texts and traditions of babylonian celestial divination are traceable in hellenistic sciences and philosophies this collection of essays investigates features of babylonian celestial divination with special focus on those aspects that influenced later greco roman astronomy astrology and theories of signs a multi faceted collection of philological historical and philosophical investigations in the path of the moon offers assyriologists classicists and historians of ancient science a wide ranging series of studies unified around the theme of babylonian celestial divination s legacy the collected essays in this volume successive steps in an ordered path constitute an invaluable contribution to a better understanding of babylonian divination lorenzo verderame sapienza università di roma the reader interested in the multifaceted presentation of the problems related to the explanation of babylonian celestial divination and well equipped with the knowledge of akkadian will certainly be rewarded by the study of rochberg s latest publication henryk drawnel sdb

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