

ASTRONOMY **WITH YOUR PERSONAL** **COMPUTER**

PETER DUFFETT-SMITH



Astronomy On The Personal Computer

K.A. Zischka



Astronomy On The Personal Computer:

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Astronomy with your Personal Computer Peter Duffett-Smith, 1990-06-29 The first edition of this very successful book was a winner of the Astronomical Society of the Pacific's Astronomy Book of the Year award in 1986 The popularity of the book's programs is based on the ease with which the amateur astronomer can perform calculations on a personal computer The routines are not specific to any make of computer and are user oriented in that they utilize a simple version of the BASIC programming language and require only a broad understanding of any particular problem Seven new subroutines in this new edition can be linked in any combination with the existing twenty six Since the programs themselves take care of details they can be used for example to calculate the time of rising of any of the planets in any part of the world at any time in the future or past or they may be used to find the circumference of the next solar eclipse

visible from a particular place In fact almost every problem likely to be encountered by the amateur astronomer can be solved by a suitable combination of the routines given in this book Peter Duffett Smith is the author of another popular astronomy book *Astronomy with Your Calculator* 3rd Edition also published by Cambridge University Press **Astronomy with a Home Computer** Neale Monks,2006-03-30 Here is a one volume guide to just about everything computer related for amateur astronomers Today s amateur astronomy is inextricably linked to personal computers Computer controlled go to telescopes are inexpensive CCD and webcam imaging make intensive use of the technology for capturing and processing images Planetarium software provides information and an easy interface for telescopes The Internet offers links to other astronomers information and software The list goes on and on Find out here how to choose the best planetarium program are commercial versions really better than freeware Learn how to optimise a go to telescope or connect it to a lap top Discover how to choose the best webcam and use it with your telescope Create a mosaic of the Moon or high resolution images of the planets *Astronomy with a Home Computer* is designed for every amateur astronomer who owns a home computer whether it is running Microsoft Windows Mac O S or Linux It doesn t matter what kind of telescope you own either a small refractor is just as useful as a big go to SCT for most of the projects in this book **The Personal Computer Past, Present and Future 1975/2021** Peter Farwell,2021-08-31 This book relates the story of the Personal Computer from 1975 to 2021 It discusses the spectacular growth in sales over the first 36 years to 2011 and the techniques used by entrepreneurs to make this happen The next six years to 2017 are years of precipitous decline in Personal computer sales We explain the causes of this decline We conclude by an examination of PC sales to 2021 when they enjoyed a resurgence and speculate on why this has been happening **Encyclopedia of Computer Science and Technology** Harry Henderson,2009 Presents an illustrated A Z encyclopedia containing approximately 600 entries on computer and technology related topics

Astronavigation K.A. Zischka,2017-05-30 This book acts as a manual for the ancient methods of navigating by the stars which continue to provide the sailor or pilot with a timeless means of determining location Despite the prevalence of GPS a comprehensive set of formulae that can be evaluated on any inexpensive scientific calculator in the event of a catastrophic software or systems failure is a vital failsafe It also serves as a living link to centuries of explorers from centuries past Beginning with the basics of positional astronomy this guide moves on to the more complex math necessary to understand the ephemerides tables showing the future positions of the stars and planets These astronomical almanacs were the satellite navigation of their day The objective of this book is twofold to provide the reader with a concise comprehensible manual on positional astronomy as it applies to astro navigation and to furnish the concise algorithms for finding the position of the Sun and various navigational stars at any given instant In a world where too many mariners and aeronauts rely solely on technology and are vulnerable to solar flares electrical issues and the like this knowledge can be a life saving backup not to mention a fascinating study in its own rights Included is an exact mathematical way to determine your position in the air or

on the sea far more quickly and accurately than by using the old celestial navigational method without even needing to know or understand the underlying mathematics There is even a section that teaches how to measure the azimuth of a star using an analog wrist watch so if a sextant gets damaged locating position is still possible This book offers mathematicians and adventurers a way to determine position when the skies go dark The U S Navy has recently realized that their electronic navigation systems are vulnerable to cyberattack and as a result has instructed the Naval Academy to begin teaching celestial navigation again

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Astronomy For Dummies Stephen P. Maran,2012-10-04 The fun and easy way to explore the night sky Do you know the difference between a red giant and a white dwarf From asteroids to black holes this easy to understand guide takes you on a grand tour of the universe Featuring updated star maps charts and an insert with gorgeous full color photographs Astronomy For Dummies provides an easy to follow introduction to the night sky Plus this new edition also gives you the latest theories explanations and insights into the basic workings of the universe Includes updated schedules of coming eclipses of the Sun and Moon and a revised planetary appendix Covers recent discoveries in space such as water on the Moon and Pluto s demotion from planet status Collects new websites lists of telescope motels sky watching guides and suggestions for beginner s telescopes and suppliers Brings you up to speed on the latest social trends and personal technology such as stargazing mobile apps NASA video and the prevalence of Citizen Science networks Whether you re an amateur astronomer space enthusiast or enrolled in a first year astronomy course Astronomy For Dummies has you covered **Skywatchers** Anthony F. Aveni,2001-08-15 Skywatchers of Ancient Mexico helped establish the field of archaeoastronomy and it remains the standard introduction to this subject Combining basic astronomy with archaeological and ethnological data it presented a readable and entertaining synthesis of all that was known of ancient astronomy in the western hemisphere as of 1980 In this revised edition Anthony Aveni draws on his own and others discoveries of the past twenty years to bring the Skywatchers story up to the present He offers new data and interpretations in many areas including The study of Mesoamerican time and calendrical systems and their unprecedented continuity in contemporary Mesoamerican culture The connections between Precolumbian religion astrology and scientific quantitative astronomy The relationship between Highland Mexico and the world of the Maya and the state of Pan American scientific practices The use of personal computer software for computing astronomical data With this updated information Skywatchers will serve a new generation of general and scholarly readers and will be useful in courses on archaeoastronomy astronomy history of astronomy history of science anthropology

archaeology and world religions Exploring Ancient Skies David H. Kelley, Eugene F. Milone, 2005-12-06 Exploring Ancient Skies brings together the methods of archaeology and the insights of modern astronomy to explore the science of astronomy as it was practiced in various cultures prior to the invention of the telescope The book reviews an enormous and growing body of literature on the cultures of the ancient Mediterranean the Far East and the New World particularly Mesoamerica putting the ancient astronomical materials into their archaeological and cultural contexts The authors begin with an overview of the field and proceed to essential aspects of naked eye astronomy followed by an examination of specific cultures The book concludes by taking into account the purposes of ancient astronomy astrology navigation calendar regulation and not least the understanding of our place and role in the universe Skies are recreated to display critical events as they would have appeared to ancient observers events such as the supernova of 1054 the lion horoscope or the Star of Bethlehem Exploring Ancient Skies provides a comprehensive overview of the relationships between astronomy and other areas of human investigation It will be useful as a reference for scholars and students in both astronomy and archaeology and will be of compelling interest to readers who seek a broad understanding of our collective intellectual history Bioastronomy Jean Heidmann, Michael J. Klein, 2005-08-11 This book collects together a selection of the best papers presented at the Third International Bioastronomy Symposium held in 1990 The subject is bioastronomy the search for life in the universe and the book is divided according to the five main stages of life as recognized by this new branch of science cosmic organic prebiotic primitive biological and advanced Thereader will find here the most recent results obtained by top specialists from all over the world on hot topics such as the formation and discovery of planets organic chemistry in meteorites and comets prebiotic chemistry in the atmosphere of Titan the search for primitive life in the permafrost of Mars and SETI itself the search for extraterrestrial intelligence Complemented by live discussions each presentation forms a review of the state of the art treatment of a particular area and also looks toward those developments in bioastronomy which will surely be realized in the next few years **Astrophysical Techniques, Fifth Edition** C.R. Kitchin, 2011-03-23 Emphasizing the underlying unity of all astronomical observations Astrophysical Techniques Fifth Edition provides a coherent state of the art account of the instruments and techniques used in current astronomy and astrophysics The fifth edition of this well respected text includes many new instruments and techniques while removing some that have long been unused by both professional and amateur astronomers New to the Fifth Edition Brief discussion on the invention and development of the telescope New section that describes the attempts to detect dark matter and dark energy Extended and updated discussions on computer Internet and spacecraft based observations and research By covering the instruments techniques theory and data processing of astrophysics in sufficient depth this text forms a thorough grounding for beginners and is a handy reference for more advanced students and professionals **The Cambridge Guide to Astronomical Discovery** William Liller, 1992-10-30 Excellent introduction to finding previously unknown comets asteroids novae and supernovae **Turn Left at Orion** Guy

Consolmagno, Dan M. Davis, 2000-10-19 A guidebook for beginning amateur astronomers Turn Left at Orion provides all the information you need to observe the Moon the planets and a whole host of celestial objects Large format diagrams show these objects exactly as they appear in a small telescope and for each object there is information on the current state of our astronomical knowledge Revised and updated this new edition contains a chapter describing spectacular deep sky objects visible from the southern hemisphere and tips on observing the upcoming transits of Venus It also includes a discussion of Dobsonian telescopes with hints on using personal computers and the internet as aids for planning an observing session Unlike many guides to the night sky this book is specifically written for observers using small telescopes Clear and easy to use this fascinating book will appeal to skywatchers of all ages and backgrounds No previous knowledge of astronomy is needed

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