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Astronomy on the Personal Computer. This long-awaited new edition of Montenbruck and Pflieger's successful book now includes new chapters on perturbation calculations and on the calculation of physical ephemerides of the major planets and the Sun. The diskette which accompanies the book has also been completely revised.

Astronomy on the Personal Computer - NASA/ADS

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Written in a portable version of BASIC, these subroutines enable the amateur astronomer to make calculations using a personal computer. This edition adds seven subroutines to the original twenty-six, all of which are non-specific to any one machine.

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It is said that a typical astronomer of the 19th century spent seven hours working at a desk for every hour spent at the telescope. That's how long the routine analysis of data took with pencil, paper, and logarithmic tables. Thus when Wilhelm Olbers discovered the minor planet Vesta in 1807 and gathered the necessary observations, his friend Gauss needed almost 10 hours to hand calculate its orbit. That achievement astonished many less gifted astronomers of the time, who might have labored days to work out the orbit of a newfound comet. How different things are today! Gauss's method of orbit determination, presented in Chap. 11 of this book, runs to completion on a home computer in a few seconds at most. The machine will issue its accurate results in less time than it takes to key in the observations. In this book, a landmark in the youthful literature of astronomical computer algorithms, Oliver Montenbruck and Thomas Pflieger cover many topics of keen interest to the practical observer. For me its most remarkable feature is the library of interrelated program modules, all elegantly written in PASCAL. Anyone who has tried to create such modules in interpreted BASIC soon runs into trouble: too few letters for variable names, not enough significant digits, and so on. These PASCAL routines are invoked one after another in coordinate transformations and calendar conversions.

The first edition of this very successful book was one winner of the Astronomical Society of the Pacific 'Astronomy Book of the Year' awards in 1986. There are a further seven subroutines in the new edition which can be linked in any combination with the existing twenty-six. Written in a portable version of BASIC, it enables the amateur astronomer to make calculations using a personal computer. The routines are not specific to any make of machine and are user friendly in that they require only a broad understanding of any particular problem. 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 circumstances 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 the book.

This is a book for the amateur astronomer who wishes to carry out astronomical calculations using a personal computer with the minimum of fuss. It is not specific to any make of machine, neither are the programmes confined to specific calculations. Rather, it presents a collection of twenty-six subroutines, written in a portable version of BASIC, which can be mixed and matched according to personal requirements. Furthermore, the user need only have a broad understanding of the problem; the subroutines themselves take care of the details. For example, the routines can be used 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 circumstances of the next solar eclipse visible from a particular place. Almost every problem likely to be encountered by the amateur astronomer can be solved by a suitable combination of the routines given here.

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.

How to predict and calculate the positions of stars, planets, the sun, the moon, and satellites using a personal computer and high school mathematics. Our knowledge of the universe is expanding rapidly, as space probes launched decades ago begin to send information back to earth. There has never been a better time to learn about how planets, stars, and satellites move through the heavens. This book is for amateur astronomers who want to move beyond pictures of constellations in star guides and solve the mysteries of a starry night. It is a book for readers who have wondered, for example, where Saturn will appear in the night sky, when the sun will rise and set, or how long the space station will be over their location. In Celestial Calculations, J. L. Lawrence shows readers how to find the answers to these and other astronomy questions with only a personal computer and high school math. Using an easy-to-follow step-by-step approach, Lawrence explains what calculations are required, why they are needed, and how they all fit together. Lawrence begins with basic principles: unit of measure conversions, time conversions, and coordinate systems. He combines these concepts into a computer program that can calculate the location of a star, and uses the same methods for predicting the locations of the sun, moon, and planets. He then shows how to use these methods for locating the many satellites we have sent into orbit. Finally, he describes a variety of resources and tools available to the amateur astronomer, including star charts and astronomical tables. Diagrams illustrate the major concepts, and computer programs that implement the algorithms are included. Photographs of actual celestial objects accompany the text, and interesting astronomical facts are interspersed throughout.

Offers Programs That Facilitate Rapid Astronomical Calculations, Which are Written in a Common Subset of BASIC & Run on the Apple

Practical Astronomy with your Calculator, first published in 1979, has enjoyed immense success. The author's clear and easy to follow routines enable you to solve a variety of practical and recreational problems in astronomy using a scientific calculator. Mathematical complexity is kept firmly in the background, leaving just the elements necessary for swiftly making calculations. The major topics are: time, coordinate systems, the Sun, the planetary system, binary stars, the Moon, and eclipses. In the third edition there are entirely new sections on generalised coordinate transformations, nutrition, aberration, and selenographic coordinates. The calculations for sunrise and moonrise are improved. A larger page size has increased the clarity of the presentation. This handbook is essential for anyone who needs to make astronomical calculations. It will be enjoyed by amateur astronomers and appreciated by students studying introductory astronomy. • Clear presentation • Reliable approximations • Covers orbits, transformations, and general celestial phenomena • Can be used anywhere, worldwide • Routines extensively tested by thousands of readers round the world

Astronomers and astrophysicists are making revolutionary advances in our understanding of planets, stars, galaxies, and even the structure of the universe itself. The Decade of Discovery presents a survey of this exciting field of science and offers a prioritized agenda for space- and ground-based research into the twenty-first century. The book presents specific recommendations, programs, and expenditure levels to meet the needs of the astronomy and astrophysics communities. Accessible to the interested lay reader, the book explores: The technological investments needed for instruments that will be built in the next century. The importance of the computer revolution to all aspects of astronomical research. The potential usefulness of the moon as an observatory site. Policy issues relevant to the funding of astronomy and the execution of astronomical projects. The Decade of Discovery will prove valuable to science policymakers, research administrators, scientists, and students in the physical sciences, and interested lay readers. Alternate Selection, Astronomy Book Club

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