

# Astronomical Formulae for Calculators

FOURTH EDITION  
Enlarged & Revised

Jean Meeus



$$k = \frac{1 + \cos i}{2}$$

$$\begin{aligned} \beta = & +5^{\circ}1282 \sin F \\ & +0^{\circ}2806 \sin (F+M') \\ & +0^{\circ}2777 \sin (M'-F) \\ & +0^{\circ}1732 \sin (2D-F) \end{aligned}$$

Foreword by  
Roger W. Sinnott  
of *Sky and Telescope Magazine*

# Astronomical Formulae For Calculators

**S Baum**



## **Astronomical Formulae For Calculators:**

**Astronomical Formulae for Calculators** Jean Meeus, 1982      [Astronomical Formulae for Calculators](#) Jean Meeus, 1979      [Practical Astronomy with your Calculator](#) Peter Duffett-Smith, 1989-02-02 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 nutation 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      **Astronomy with Your Personal Computer** Peter Duffett-Smith, 1990-06-29 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      **Practical Astronomy with your Calculator or Spreadsheet** Peter Duffett-Smith, Jonathan Zwart, 2017-07-06 Now in its fourth edition this highly regarded book is ideal for those who wish to solve a variety of practical and recreational problems in astronomy using a scientific calculator or spreadsheet Updated and extended this new edition shows you how to use spreadsheets to predict with greater accuracy solar and lunar eclipses the positions of the planets and the times of sunrise and sunset Suitable for worldwide use this handbook covers orbits transformations and general celestial phenomena and is essential for anyone wanting to make astronomical calculations for themselves With clear easy to follow instructions for use with a pocket calculator shown alongside worked examples it can be enjoyed by anyone interested in astronomy and will be a useful tool for software writers and students studying introductory astronomy High precision spreadsheet methods for greater accuracy are available at [www.cambridge](http://www.cambridge)

org practicalastronomy      **Astronomy on the Personal Computer** Oliver Montenbruck, Thomas Pfleger, 2013-03-14 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 Pfleger 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      *Celestial Calculations* J. L. Lawrence, 2019-05-14 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 Source code in Python 3 JAVA and Visual Basic and executables for all the programs and examples presented in the book are available for download at <https://CelestialCalculations.github.io>      [Astronomical Algorithms](#) Jean Meeus, 1991      [Practical Ephemeris Calculations](#) Oliver Montenbruck, 1989-08-10 The calculation of exact positions of stars

the Sun and the celestial bodies of the solar system is a prerequisite of successful practical work in astronomy This text gives the necessary background of spherical astronomy and celestial mechanics from the practitioner s point of view and collates all the formulae and numerical values needed to calculate precise ephemerides The clear structure of the book allows easy use of the material in computer programs Students lecturers and amateurs in astronomy will find the book an invaluable reference in their daily work lectures or lab courses

**Monthly Notes of the Astronomical Society of Southern Africa** Astronomical Society of Southern Africa,1989

Compendium of Practical Astronomy Günter D. Roth,1994-10-07 It is a pleasure to present this work which has been well received in German speaking countries through four editions to the English speaking reader We feel that this is a unique publication in that it contains valuable material that cannot easily if at all be found elsewhere We are grateful to the authors for reading through the English version of the text and for responding promptly for the most part to our queries Several authors have supplied us on their own initiative or at our suggestion with revised and updated manuscripts and with supplementary English references We have striven to achieve a translation of Handbuch for Sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original German text Where appropriate we have inserted footnotes to clarify material which may have a different meaning and or application in English speaking countries from that in Germany When the first English edition of this work Astronomy A Handbook translated by the late A Beer appeared in 1975 it contained 21 chapters This new edition is over twice the length and contains 28 authored chapters in three volumes At Springer s request we have devised a new title Compendium of Practical Astronomy to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages

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