

## The Cambridge Photographic Star Atlas

The Immortal Fire Within Astronomy Methods The Monthly Sky Guide Photographic Atlas of the Moon Common Breast Lesions The Cambridge Photographic Atlas of Galaxies Collimating a Newtonian Scientifically The Photographic Atlas of the Stars Visual Astronomy of the Deep Sky The Lost Constellations Atlas of the Messier Objects Atlas of Great Comets The Cambridge Star Atlas Discover the Moon Atlas of the Human Brain interstellarum Deep Sky Guide Desk Edition The Sky Atlas Philip's Night Sky Atlas The Cambridge Double Star Atlas The Cambridge Photographic Star Atlas Atlas of Great Comets The Cambridge Photographic Moon Atlas A Photographic Atlas of Selected Regions of the Milky Way A.D.A.M. Student Atlas of Anatomy Cambridge Astronomy Guide The Kaguya Lunar Atlas The Cosmos The Multiwavelength Atlas of Galaxies Viewing the Constellations with Binoculars Binocular Stargazing Hair of West European Mammals Celestial Calculations The Cambridge Star Atlas Atlas of the Moon The Great Atlas of the Stars The Cambridge Atlas of Herschel Objects Process Chemistry of Lubricant Base Stocks Understanding Variable Stars Chronicling the Golden Age of Astronomy The Cambridge Guide to Astronomical Discovery

## The Immortal Fire Within

This unique atlas of the human brain correlates studies of post mortem tissue with the in situ, cross-sectional brain and MRIs of the same brain in situ with in vivo images from normal volunteers. This atlas contains a series of maps, each featuring different aspects of brain morphology and topography. The atlas is divided into two sections: the Topographic and Topometric Atlas and the Myeloarchitectonic Atlas. The Topographic and Topometric atlas presents the surface anatomy of the brain over a topometric grid, together with corresponding in situ sections of the entire head, placed on stereotaxic grids in order to emphasize the brain. The part of the atlas is further divided into three sections: the Horizontal, the Coronal, and the Sagittal. The Myeloarchitectonic atlas presents 69 myelin-stained sections cut perpendicular to the intercommissural line depicting mainly subcortical structures. Each plate has corresponding schematic diagrams defining position, extent, and relationship of nuclei and pathways of the forebrain and mesencephalon. Topographic and Topometric Atlas Benefits: \* Sections are cut at regular, 1-cm thick intervals in all planes of section \* Both sides of section are shown, due to unprecedented thickness of the sections, providing additional information \* Includes corresponding x-rays and MRIs of the same head and an in vivo MRI from a healthy volunteer Myeloarchitectonic Atlas Benefits: \* Presents the most comprehensive delineations available; suitable for mapping of neurotransmitters, neuropeptides, and receptors \* Tissue sections are from a reference brain used by preeminent neuroanatomists: Vogts, Brockhaus, Hassler, Wahren, Hopf, and Sanides \* Includes four pages of 36 reduced figures showing gyrification and subcortical detail

## **Astronomy Methods**

Galaxies - the Milky Way's siblings - offer a surprising variety of forms and colours. Displaying symmetrical spiral arms, glowing red nebulae or diffuse halos, even the image of a galaxy can reveal much about its construction. All galaxies consist of gas, dust and stars, but the effects of gravity, dark matter and the interaction of star formation and stellar explosions all influence their appearances. This volume showcases more than 250 of the most beautiful galaxies within an amateur's reach and uses them to explain current astrophysical research. It features fantastic photographs, unique insights into our knowledge, tips on astrophotography and essential facts and figures based on the latest science. From the Andromeda Galaxy to galaxy clusters and gravitational lenses, the nature of galaxies is revealed through these stunning amateur photographs. This well illustrated reference atlas deserves a place on the bookshelves of astronomical imagers, observers and armchair enthusiasts.

## **The Monthly Sky Guide**

A stunning reference on thirty of the greatest comets that have been witnessed and documented since the Middle Ages. Supported by a wealth of images, the broad historical context and modern scientific interpretation are explored for each Great Comet, providing an invaluable resource for all astronomy enthusiasts.

## **Photographic Atlas of the Moon**

A full-length biography of Barnard, one of the leading astronomers of the late nineteenth century.

## **Common Breast Lesions**

Includes a detailed map of the near side of the Moon.

## **The Cambridge Photographic Atlas of Galaxies**

' (the book) conveys the enthusiasm and excitement of the authors even at the potential of an astronomical discovery, a lot of advice is useful, and it would certainly encourage and help anyone to have a go at astronomical photography.'  
Astronomy Now

## **Collimating a Newtonian Scientifically**

Edward Emerson Barnard's Photographic Atlas of Selected Regions of the Milky Way was originally published in two volumes in 1927. Together, these volumes contained a wealth of information, including photographic plates of the most interesting portions of the Milky Way, descriptive text, charts and data. Only 700 copies were printed, making the original edition a collector's item. Reproduced in print for the first time, this edition combines both volumes of Barnard's Atlas. It directly replicates Barnard's text, and contains high-resolution images of the original photographic plates and charts, reordered so that they can be seen together. It also includes a biography of Barnard and his work, a Foreword and Addendum by Gerald Orin Dobek describing the importance of the Atlas and additions to this volume, and a pull-out section with a mosaic of all 50 plates combined in a single panorama.

## **The Photographic Atlas of the Stars**

Magnificent atlas of double and multiple stars for viewing with binoculars and telescopes: a must-have for stargazers.

## **Visual Astronomy of the Deep Sky**

In late 2007, the Japanese Space Exploration Agency (JAXA) placed the Kaguya/ Selene spacecraft in orbit around the Moon to probe the Moon's surface and interior. But unlike previous lunar orbiters, Kaguya carries a high definition television camera (HDTV) sent beyond Earth orbit. Sponsored by the Japanese NHK TV network, the HDTV has amazed both scientists and the public with its magnificent views of the lunar surface. What makes these images so much more engaging than standard vertical view lunar photography is that they are taken looking obliquely along the flight path. Thus, they show the Moon as it would be seen by an astronaut looking through a porthole window while orbiting only 100 km above the lunar surface. This is the view we all would wish to have but are never likely to, except vicariously through the awe-inspiring Kaguya HDTV images. Each page features a HDTV image with a map of the entire Moon on the upper left showing where the image is located. On the upper right is a 100-150 word description. Seeing the Moon is not intended solely for lunar scientists who are striving to work out the mysteries of the Moon's origin and evolution. Everyone can appreciate the natural beauty and be entranced by the view of the nearby world where humans may one day live.

## **The Lost Constellations**

Using the latest methods in digital photography and image processing, The Cambridge Photographic Star Atlas presents the whole sky through large-scale photographic images with corresponding charts. Each double-page spread shows a section of the night sky and is accompanied by an inverted chart highlighting and naming double stars, variable stars, open clusters, galactic and planetary nebulae, globular clusters, and galaxies. The 82 large-scale charts, with a scale of 1° per cm, identify

over 1500 deep-sky objects and 2500 stars. Providing a giant mosaic of the entire sky, this unique atlas is unparalleled in detail and completeness, making it indispensable for visual observers and astrophotographers.

## **Atlas of the Messier Objects**

An exciting introduction to astronomy, the fourth edition of this book uses recent discoveries and stunning photography to inspire non-science majors about the Universe. Written by two highly experienced and engaging instructors, each chapter has been fully updated, with more than 200 new images throughout, including recent images from space missions and the world's best observatories. The newly redesigned text is organized as a series of stories, each presenting the history of the field, the observations made and how they fit within the process of science, our current understanding and what future observations are planned. Math is provided in boxes and easily read around, making the book suitable for courses taking either mathematical or qualitative approaches. New discussion questions encourage students to think widely about astronomy and the role science plays in our everyday lives and podcasts for each chapter aid studying and comprehension.

## **Atlas of Great Comets**

Advances in processing methods are not only improving the quality and yield of lubricant base stocks, they are also reducing the dependence on more expensive crude oil starting materials. *Process Chemistry of Lubricant Base Stocks* provides a comprehensive understanding of the chemistry behind the processes involved in petroleum base stock production from crude oil fractions. This book examines hydroprocessing technologies that, driven by the demand for higher performance in finished lubricants, have transformed processing treatments throughout the industry. The author relates the properties of base stocks to their chemical composition and describes the process steps used in their manufacture. The book highlights catalytic processes, including hydrocracking, hydrofinishing, and catalytic dewaxing. It also covers traditional solvent-based separation methods used to remove impurities, enhance performance, and improve oxidation resistance. The final chapters discuss the production of Food Grade white oils and paraffins and the gas-to-liquids processes used to produce highly paraffinic base stocks via Fischer-Tropsch chemistry. *Process Chemistry of Lubricant Base Stocks* provides historical and conceptual background to the technologies used to make base stocks, thorough references, and a unique emphasis on chemical, not just engineering, aspects of lubricant processing—making this book an ideal and practical reference for scientists across a wide range of disciplines.

## **The Cambridge Star Atlas**

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.

### **Discover the Moon**

A photographic atlas for identification of mammal hair.

### **Atlas of the Human Brain**

Provides information about the moon, star charts and monthly sky maps covering that which is visible each month in different hemispheres. Original.

### **interstellarum Deep Sky Guide Desk Edition**

Since the radio signature of our own Milky Way was detected in 1931, galaxies have been observed from ultra-high energy gamma rays to long wavelength radio waves, providing fundamental insights into their formation, evolution and structural components. Unveiling the secrets of some of the best-observed galaxies, this atlas contains over 250 full-color images spanning the whole electromagnetic spectrum. The accompanying text explains why we see the component stars, gas and dust through different radiation processes, and describes the telescopes and instruments used. This atlas is a valuable reference resource on galaxies for students seeking an overview of multiwavelength observations and what they tell us,

and researchers needing detailed summaries of individual galaxies. An accompanying website, hosted by the author, contains slide shows of the galaxies covered in the book. This is available at [www.cambridge.org/9780521620628](http://www.cambridge.org/9780521620628).

## **The Sky Atlas**

How would you like to discover a comet? Or be the first person to recognize a new star? This book will tell you how, and more! Writing for amateur astronomers using backyard equipment, noted astronomer, Bill Liller, describes exactly how to search the night skies for the unexpected, and what techniques work best for making astronomical discoveries. Author Liller covers all kinds of objects, such as comets, asteroids, novae, and supernovae that an amateur can hope to find as a result of systematic searching. One chapter also includes sage advice from successful amateurs, such as David Levy and Minoru Honda (comets), Bob Evans (supernovae), and Eleanor Helin and Brian Manning (asteroids), who share the secrets of their methods. The use of electronic technology is included, as well as instructions on how to publicize a discovery. Extensive appendices contain a wealth of essential data for every new discoverer of cosmic events. William Liller is the coauthor (with Ben Mayer) of the Cambridge Guide to Astronomy (1985) and has had a minor planet (3222) named after him.

## **Philip's Night Sky Atlas**

The 110 star clusters, nebulae and galaxies of Messier's catalog are among the most popular of all the deep sky objects and are beautiful targets for amateur observers of all abilities. This stunning new atlas presents a complete and lively account of all of the Messier objects. Details for each object given include a thoroughly-researched history of its discovery, historical observations and anecdotes, the latest scientific data detailing its astrophysical findings, and clear observational descriptions from naked eye through to large telescopes. In addition, this atlas has some of the world's finest color astrophotos, inverted and labelled photos pointing to hidden details and neighboring objects, as well as historical sketches alongside new deep sky drawings. Quite simply, this is the most far-reaching and beautiful reference on the Messier objects there has ever been, and one that no observer should be without!

## **The Cambridge Double Star Atlas**

Casual stargazers are familiar with many classical figures and asterisms composed of bright stars (e.g., Orion and the Plough), but this book reveals not just the constellations of today but those of yesteryear. The history of the human identification of constellations among the stars is explored through the stories of some influential celestial cartographers whose works determined whether new inventions survived. The history of how the modern set of 88 constellations was defined by the professional astronomy community is recounted, explaining how the constellations described in the book

became permanently “extinct.” Dr. Barentine addresses why some figures were tried and discarded, and also directs observers to how those figures can still be picked out on a clear night if one knows where to look. These lost constellations are described in great detail using historical references, enabling observers to rediscover them on their own surveys of the sky. Treatment of the obsolete constellations as extant features of the night sky adds a new dimension to stargazing that merges history with the accessibility and immediacy of the night sky.

## **The Cambridge Photographic Star Atlas**

This book was first published in 2007. Variable stars are those that change brightness. Their variability may be due to geometric processes such as rotation, or eclipse by a companion star, or physical processes such as vibration, flares, or cataclysmic explosions. In each case, variable stars provide unique information about the properties of stars, and the processes that go on within them. This book provides a concise overview of variable stars, including a historical perspective, an introduction to stars in general, the techniques for discovering and studying variable stars, and a description of the main types of variable stars. It ends with short reflections about the connection between the study of variable stars, and research, education, amateur astronomy, and public interest in astronomy. This book is intended for anyone with some background knowledge of astronomy, but is especially suitable for undergraduate students and experienced amateur astronomers who can contribute to our understanding of these important stars.

## **Atlas of Great Comets**

The Photographic Atlas of the Stars contains 50, high-quality full color photographs of the entire night sky of the northern and southern hemispheres. Each plate is accompanied by a star map of the identical area, which identifies the main stars of the constituent constellations as well as other interesting astronomical objects. In addition to this detail, Sir Patrick Moore has written a commentary for each plate that highlights the stars and objects of interest to observers equipped with binoculars and that includes detailed tabular information on astronomical objects of the region. The resulting double-page spread provides an invaluable reference for the amateur astronomer, detailing the constellations and other heavenly bodies of interest that are observable with the naked eye, binoculars, or a small telescope.

## **The Cambridge Photographic Moon Atlas**

The Sky Atlas unveils some of the most beautiful maps and charts ever created during humankind's quest to map the skies above us. This richly illustrated treasury showcases the finest examples of celestial cartography—a glorious art often overlooked by modern map books—as well as medieval manuscripts, masterpiece paintings, ancient star catalogs, antique

instruments, and other curiosities. This is the sky as it has never been presented before: the realm of stars and planets, but also of gods, devils, weather wizards, flying sailors, ancient aliens, mythological animals, and rampaging spirits. • Packed with celestial maps, illustrations, and stories of places, people, and creatures that different cultures throughout history have observed or imagined in the heavens • Readers are taken on a tour of star-obsessed cultures around the world, learning about Tibetan sky burials, star-covered Inuit dancing coats, Mongolian astral prophets and Sir William Herschel's 1781 discovery of Uranus, the first planet to be found since antiquity. • A gorgeous book that delights stargazers and map lovers alike With thrilling stories and gorgeous artwork, this remarkable atlas explores our fascination with the sky across time and cultures to form an extraordinary chronicle of cosmic imagination and discovery. The Sky Atlas is a wonderful book for map lovers, history buffs, and stargazers, but also for those who are intrigued by the many wonderful and bizarre ways in which humans have sought to understand the cosmos and our place in it. • A unique map book that expands beyond the terrestrial and into the celestial • A wonderful book for map lovers, obscure-history fans, mythology buffs, and astrology and astronomy lovers • Great for those who enjoyed What We See in the Stars: An Illustrated Tour of the Night Sky by Kelsey Oseid, Maps by Aleksandra Mizielińska and Daniel Mizieliński, and Atlas of Remote Islands: Fifty Islands I Have Never Set Foot On and Never Will by Judith Schalansky

## **A Photographic Atlas of Selected Regions of the Milky Way**

In 2003 my partner Kathleen, proposed a bungalow with a great view of the night sky. December 2005 and one year into telescopes, the optics of the length halved again 8" Cape-Newise got me tasting my own medicine unwittingly and gladly. The confident advertising style mirrored mine for Bailey designed hi-fi speakers, making 100 in the 70's, exporting 30 to Germany. My approach has been that of being Isaac Newton through the ages, and after each advancement writing down the achievements at the eyepiece. The 3rd edition of March 2014 was still only 16 pages, 6 of which were the instructions and still are. 50 pages of interest were enabled by 2 months in a recliner chair waiting for surgery. Edition numbers change only with improvements to method. They settled down in October 2014 and the 4th edition printings began in March 2015 and have been selling an average of 6 a day at events since 2012. Intuitive adjustments, too easily fallen into, are prevented by following the instructions chapter in this book. The first 2 sentences of stage [1] and all of stage [4] work equally well for Cassegrain type in-line optics. Mirror cleaning, vetted by a mirror manufacturer, has always been included.

## **A.D.A.M. Student Atlas of Anatomy**

The interstellarum Deep Sky Atlas set a new high standard for modern celestial cartography. The same team now presents the interstellarum Deep Sky Guide, its unique observing companion. Taking an intuitive visual approach, for each spread of the Atlas, the Guide focuses on carefully selected objects, either as colored composite POSS plates or through the authors'

own eyepiece sketches. They allow you to estimate the visibility of features in the telescope while planning observations. Stars and other objects in the vicinity are highlighted, so they also serve as finder charts at night. An index map on each spread allows you to quickly find each object's location in the Atlas. The interstellarum Deep Sky Guide takes all the hassle out of preparing for observing sessions - there's no need to print star charts or photos. Simply grab your Atlas and your Guide, and go observe!

## **Cambridge Astronomy Guide**

This all-purpose star atlas is the first of its kind devoted to observing the Herschel objects with binoculars and telescopes. It displays over 2500 of the most visually attractive star clusters, nebulae and galaxies that were discovered by Sir William, Caroline and Sir John Herschel. Covering the entire sky from the North to the South Celestial Pole, and showing all 88 constellations, it is also a general sky atlas showing variable, double and multiple stars, and the Milky Way. Written by experienced observer James Mullaney and illustrated by renowned celestial cartographer Wil Tirion, this is a magnificent 'celestial roadmap' to some of the finest deep-sky showpieces. Spiral bound and printed in red-light friendly colors for use at a telescope, with color-coded symbols for easy recognition and identification, this is a must-have observing reference for all amateur observers. Additional resources, including a target list ordered by Herschel designation, are available to download from [www.cambridge.org/9780521138178](http://www.cambridge.org/9780521138178).

## **The Kaguya Lunar Atlas**

A guide to viewing stars, the moon, planets, meteors, comets, and aurora through binoculars. Features a foreword by renowned astronomer and writer David Levy. Includes a complete guide to current binocular brands and models and explains what to look for in each season.

## **The Cosmos**

Generously illustrated with over 700 photographs, drawings, histopathology slides, radiographs, and mammographs, this color atlas provides a step-by-step guide to the differential diagnosis and treatment of the most prevalent diseases of the breast. Organized around primary patient complaints, part one covers benign tumors, malignant carcinomas, pain, and various symptoms of the skin and nipple-areola complex. This is followed by a multidisciplinary review of the respective techniques of the clinician, radiologist, pathologist, surgeon, and reconstructive surgeon. Illustrated from the editor's authoritative collection of over 14000 patient records and written by a multidisciplinary team, this photographic atlas provides a guide to proper clinical examination; diagnostic and interventional radiography; diagnostic pathology; surgical

biopsy; surgical excision of benign lesions; breast conservation surgery; total, modified radical, and radical mastectomies; and reconstructive surgery. Clinicians will find this guide invaluable in diagnosing and treating the most common cancer affecting women today.

## **The Multiwavelength Atlas of Galaxies**

Throughout the ages, comets, enigmatic and beautiful wandering objects that appear for weeks or months, have alternately fascinated and terrified humankind. The result of five years of careful research, Atlas of Great Comets is a generously illustrated reference on thirty of the greatest comets that have been witnessed and documented since the Middle Ages. Special attention is given to the cultural and scientific impact of each appearance, supported by a wealth of images, from woodcuts, engravings, historical paintings and artifacts, to a showcase of the best astronomical photos and images. Following the introduction, giving the broad historical context and a modern scientific interpretation, the Great Comets feature in chronological order. For each, there is a contemporary description of its appearance along with its scientific, cultural and historical significance. Whether you are an armchair astronomer or a seasoned comet-chaser, this spectacular reference deserves a place on your shelf.

## **Viewing the Constellations with Binoculars**

Astronomy Methods is an introduction to basic practical tools, methods and phenomena that underlie quantitative astronomy. Taking a technical approach, the author covers a rich diversity of topics across all branches of astronomy, from radio to gamma-ray wavelengths. Clear, systematic presentations of the topics are accompanied by diagrams and problem sets. Written for undergraduates and graduate students, this book contains a wealth of information that is required for the practice and study of quantitative and analytical astronomy and astrophysics.

## **Binocular Stargazing**

The ninth edition of Ian Ridpath and Wil Tirion's famous guide to the night sky is updated with planet positions and forthcoming eclipses to the end of the year 2017. It contains twelve chapters describing the main sights visible in each month of the year, providing an easy-to-use companion for anyone wanting to identify prominent stars, constellations, star clusters, nebulae and galaxies; to watch out for meteor showers ('shooting stars'); or to follow the movements of the four brightest planets, Venus, Mars, Jupiter and Saturn. Most of the sights described are visible to the naked eye and all are within reach of binoculars or a small telescope. This revised and updated edition includes sections on observing the Moon and the planets, with a comprehensive Moon map. The Monthly Sky Guide offers a clear and simple introduction to the skies

of the northern hemisphere for beginners of all ages.

## **Hair of West European Mammals**

Opposite each map is a 'photorealistic' image which shows how the same portion of the sky appears to the naked eye. The next group of maps show the most interesting parts of the sky at a much larger scale, in 40 full-colour constellation charts, accompanied by colour photographs and drawings and a detailed explanatory text.

## **Celestial Calculations**

Viewing the Constellations with Binoculars is a complete guide to practical astronomy, written for beginners, intermediate-level astronomers, and even people who have not yet turned their gaze to the night sky. The required observing equipment to get the full value from this book is no more than a pair of regular 10 x 50 binoculars, but even more can be seen with a small astronomical telescope. This comprehensive introduction to astronomy and practical observing is far more than a guide to what can be seen in the night sky through binoculars. It introduces the reader to some basic (and some not-so-basic) astronomical concepts, and discusses the stars and their evolution, the planets, nebulae, and distant galaxies. There is a guide to selecting and using binoculars for astronomy, as well, as a 'getting ready to observe' section containing invaluable practical hints and tips. The second part of the book is an extraordinarily complete atlas and guide to the night sky down to 30<sup>o</sup> N (covering all the USA and Europe). It is illustrated with superb and sometimes beautiful amateur astronomical photographs, detailed maps (down to 5<sup>th</sup> magnitude), descriptions, and data on all astronomical objects of interest.

## **The Cambridge Star Atlas**

Guide to discovering lunar sites, for beginners.

## **Atlas of the Moon**

Renowned for its innovative approach to understanding the human body, this second edition features full-color art throughout, using a three-dimensional approach to anatomic structure. Emphasizing surface anatomy, it features unique additional views (posterior, medial, lateral) of important structures with extensive coverage of those areas - such as the perineum, head, and neck - which are often difficult for students to understand and appreciate. The ADAM Student Atlas of Anatomy is an invaluable learning and review tool developed for medical, allied health, and human biology undergraduate

and graduate students.

## **The Great Atlas of the Stars**

Featuring 388 high-resolution photographs and concise descriptions of the Moon's topography, this atlas is an indispensable guide for amateur astronomers and astrophotographers.

## **The Cambridge Atlas of Herschel Objects**

Day-by-day photographic guide to observing the features of the Moon through a small telescope.

## **Process Chemistry of Lubricant Base Stocks**

This classic star atlas is ideal for both beginning astronomers and more experienced observers worldwide. The clear, full-color maps show stars, clusters and galaxies visible with binoculars or a small telescope. The atlas also features constellation boundaries and the Milky Way, and lists objects that are interesting to observe. This new edition features a clearer map of the Moon's surface, showing craters and features; a second Moon map, mirror reversed for users of telescopes with star diagonals; enhanced index charts showing the constellations more clearly; and a new data table listing stars hosting planetary systems. It is now spiral bound, making it ideal for use at the telescope.

## **Understanding Variable Stars**

The invention of the telescope at the dawning of the 17th century has revolutionized humanity's understanding of the Universe and our place within it. This book traces the development of the telescope over four centuries, as well as the many personalities who used it to uncover brand-new revelations about the Sun, Moon, planets, stars and distant galaxies. Starting with early observers such as Thomas Harriot, Galileo, Johannes Hevelius, Giovanni Domenico Cassini, Robert Hooke and Christian Huygens, the book explores how these early observers arrived at essentially correct ideas concerning the objects they studied. Moving into the 18th and 19th centuries, the author describes the increasing sophistication of telescopes both large and small, and the celebrated figures who used them so productively, including the Herschels, Charles Messier, William Lassell and the Earls of Rosse. Many great discoveries were also made with smaller instruments when placed in the capable hands of the Struve dynasty, F.W. Bessel, Angelo Secchi and S.W. Burnham, to name but a few. Nor were all great observers of professional ilk. The book explores the contributions made by the 'clerical astronomers,' William Rutter Dawes, Thomas William Webb, T.E.R. Philips and T.H.E.C. Espin, as well as the lonely vigils of E.E. Barnard,

William F. Denning and Charles Grover. And in the 20th century, the work of Percival Lowell, Leslie Peltier, Eugene M. Antoniadi, Clyde Tombaugh, Walter Scott Houston, David H. Levy and Sir Patrick Moore is fully explored. Generously illustrated throughout, this treasure trove of astronomical history shows how each observer's work led to seminal developments in science, and providing key insights into how we go about exploring the heavens today.

### **Chronicling the Golden Age of Astronomy**

Provides background information on stars, constellations, and other celestial phenomena, and depicts the major constellations, with overlays pointing out the most noteworthy stars.

### **The Cambridge Guide to Astronomical Discovery**

Atlas over de vigtigste galakser og nebuloser, som kan ses i teleskop af amatørastronomer.

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