
Binocular Astronomy The Patrick Moore Practical Astronomy Series

A New Way to Chart the Stars
The Observer's Year
The Astronomical Tourist
A Manual for the Astronomical Observer and Amateur Telescope Maker
Astrophysics Is Easy!
An Introduction for the Amateur Astronomer
An Astronomical Tour
Deep Sky Observing
The Amateur Astronomer
Sketching the Moon
3,000 Deep-Sky Objects
366 Nights of the Universe
Viewing and Imaging the Solar System
A Buyer's and User's Guide to Astronomical Telescopes & Binoculars
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Observing the Messier Objects with a Small Telescope
Deep Sky Observing
Patrick Moore
Astronomy with Small Telescopes
Patrick Moore's Astronomy: A Complete Introduction: Teach Yourself

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CASSANDRA BRYAN

A New Way to Chart the Stars Springer Science & Business Media
Patrick Moore's painstakingly researched, beautifully illustrated
guide to astronomical observation for casual and serious
observers.

The Observer's Year CRC Press

It was once said that 'the night sky always looks much the same'.
In fact, nothing could be further from the truth. There are 365
days in each year (366 in a Leap Year!), and from an

astronomical point of view no two are alike. What I aim to do, in
this book, is to go through a complete year and point out some
special items of interest for each night. It may be a double star, a
variable star or a nebula; it may be a planet, or even the Moon in
some particular aspect - there is plenty of variety. (Anyone
unfamiliar with astronomical terms should consult the Glossary at
the end of this book.) Let it be said at once that you do not need
a large and expensive telescope. A surprising amount can be
seen with the naked eye, and binoculars give increased range;
indeed, it is probably fair to say that good binoculars are ideal
for the beginner, and are far better than very small telescopes.
Telescopes are of two types: refractors, and reflectors. A refractor

collects its light by means of a glass lens known as an object-glass (OG); the light passes down the telescope tube and is brought to focus, where an image is formed and is then magnified by a second lens, termed an eyepiece.

The Astronomical Tourist Stackpole Books

Small telescopes, whether simple beginners' telescopes or refined computer-controlled instruments, are gaining popularity fast as technology improves and public interest increases. In this book the author has brought together the experience of small telescope users to provide an insightful look into just what is possible. It is written for newcomers to astronomy and experts. Topics covered include: refractors, reflectors, advanced catadioptric telescopes, and a simple radio telescope. Almost everyone with an interest in practical astronomy will want this book.

A Manual for the Astronomical Observer and Amateur Telescope Maker Binocularsky Publishing

Observing the Messier Objects with a Small Telescope contains descriptions and photographs of the 103 Messier objects, with instructions on how to find them without a computerized telescope or even setting circles. The photographs show how the objects appear through a 127mm Maksutov (and other instruments, where applicable). The visual appearance of a Messier object is often very different from what can be imaged with the same telescope, and a special feature of this book is that it shows what you can see with a small telescope. It will also contain binocular descriptions of some objects. Messier published the final version of his catalog in 1781 (it contains 103 different objects), a catalog so good that it is still in common use today,

well over two centuries later. In making a catalog of all the 'fixed' deep-sky objects that observers might confuse with comets, Messier had succeeded in listing all the major interesting deep-sky objects that today are targets for amateur astronomers. Messier's telescope (thought to be a 4-inch) was, by today's amateur standards, small. It also had rather poor optics by modern standards. Thus - and despite the fact that he was a master observer - all the things Messier saw can be found and observed by any observer using a commercial 127 mm (5-inch) telescope. Observing the Messier Objects with a Small Telescope lets the reader follow in Messier's footsteps by observing the Messier objects more or less as the great man saw them himself! *Astrophysics Is Easy!* Springer

Patrick Moore's illustrated month-by-month guide to astronomy with the naked eye.

An Introduction for the Amateur Astronomer Springer Science & Business Media

Patrick Moore's Astronomy will ensure you recognize what you are seeing in the night sky. You will investigate the sun, moon, planets comets and stars and learn how to observe them. This comprehensive guide, complete with star charts, will map out the skies and allow you to impress your friends with your knowledge of the sky at night. NOT GOT MUCH TIME? One, five and ten-minute introductions to key principles to get you started. AUTHOR INSIGHTS Lots of instant help with common problems and quick tips for success, based on the author's many years of experience. TEST YOURSELF Tests in the book and online to keep track of your progress. EXTEND YOUR KNOWLEDGE Extra online articles at www.teachyourself.com to give you a richer

understanding of astronomy. FIVE THINGS TO REMEMBER Quick refreshers to help you remember the key facts. TRY THIS Innovative exercises illustrate what you've learnt and how to use it.

An Astronomical Tour Springer Science & Business Media

"Twenty-Five Astronomical Observations That Changed the World" takes twenty-five journeys through space, back in time and into human history. We begin with the simplest sight of the Tycho Crater on the Moon, through a repeat of Galileo's observations of Jupiter's moons, and then move out towards the nebulae, stars, and galaxies. The astronomical observations repeat the original groundbreaking discoveries that have changed our understanding of science and ourselves. This title contains graded observing challenges from the straightforward to the more difficult (in chapter order). It offers clear observing tips and lots of practical help, presuming no prior in-depth knowledge of equipment. Binoculars and/or a small astronomical telescope are all that is required for most of the observations. Secondly, it explores for each observation the science of what is seen, adding to the knowledge and enjoyment of amateur astronomers and offering lots of reading for the cloudy nights when there is not a star in view. Thirdly, the book puts the amateur astronomers' observations into a wider perspective. "Twenty-Five Astronomical Observations That Changed the World" makes the observer part of that great story of discovery. Each chapter, each observing challenge, shows how to observe and then how to look with understanding. The projects begin with practicalities: where the object is, how best is it observed and with what appropriate equipment (usually a small-to-medium aperture amateur

telescope, binoculars, even the naked eye). "Twenty-Five Astronomical Observations that Changed the World" guides even the inexperienced amateur astronomer - beginners can use the book - around a variety of night-sky objects, and reminds the more experienced how they can best be seen. These practical observations put us in contact with all the history and culture surrounding them: through scientific speculation and literature to those first fuzzy images made in 1959 by the Russian space probe Luna 3.

Deep Sky Observing Springer Science & Business Media

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 Amateur Astronomer Springer

Binocular AstronomySpringer

Sketching the Moon Springer Science & Business Media

Includes a link to freely downloadable higher resolution colour charts that you may print out or display on your tablet or other device. For many decades, the advice given to beginning amateur astronomers has been "start with binoculars" but, beyond that, there has not been any specific advice on how to go about it. Stephen Tonkin shows you why this advice is appropriate, and takes you on a year-long journey through the night sky visible from northern temperate latitudes. At the end of this journey, you will have a sound basic knowledge of the sky and will have gathered useful snippets of astronomical information and whimsy along the way. Although the book is

intended to be used with a decent star atlas (the star charts in the book are size-limited by the page size), readers have the option of downloading a full set of higher resolution colour charts to print out or for use on a tablet or smartphone. Reader comments: "I find this book a true pleasure to read
3,000 Deep-Sky Objects Cambridge University Press
The second edition of *Observing and Measuring Visual Double Stars* (2004) is the definitive book for those who are serious about this fascinating aspect of astronomy. It deals with equipment (you can start modestly with commercial or even home-made instruments), observing methods using binoculars upwards to advanced instrumentation and techniques, including speckle interferometry. The astronomy of double stars, including orbital calculation, is given its own section. This second edition of this popular book contains a significant amount of completely new material, inspired by the work done by observers – particularly in the USA – since the first edition was published. This includes the use of the Internet to carry out astrometry (precise astronomical measurement) using existing survey plates and films. The new edition contains an excellent guide to sketching double stars, a topic not previously covered. In addition, there is information about how to image double stars of unequal brightness, always a difficult matter but now somewhat easier because of advances in hardware and image-processing software. Nearly all of the chapters and tables have been updated. The CD-ROM that accompanied the first edition of *Observing and Measuring Visual Double Stars* is replaced by access to the Springer Extras web site. The extra information includes the complete Washington Double Star and Tycho-2 Catalogs. There is

an extensive database of astrometric, double-and multiple-star formation, including positions, orbits, separations, and magnitudes, and a software suite that implements many of the calculations and equations featured in the book.

366 Nights of the Universe Springer Science & Business Media
Designed for anyone who wishes to learn the constellations or observe the best and brightest deep sky objects and double stars, this book contains an alphabetical list of constellations complete with star maps, historical background, and highlights of deep sky objects. Each entry contains position and physical information on enough stars to support astronomers in star-hopping, swinging the telescope from star to star to star to arrive at a faint target. It provides a carefully selected list of accessible and rewarding deep sky objects. Full-color maps show the constellations, with star types (spectral and physical) indicated by the colors used on the map. Extended objects such as galaxies and nebulae are shown with the approximate apparent size in the sky. With unmatched thoroughness and accessibility, this is a constellation atlas that makes the ideal companion to a night's telescope viewing, for novices and expert amateur astronomers alike. Easy to navigate and refer to, it is the key that unlocks the door to greater night sky exploration.

Viewing and Imaging the Solar System Springer Science & Business Media

Both beginning/novice amateur astronomers (at the level of *Astronomy and Night Sky* magazine readers), as well as more advanced amateur astronomers (level of *Sky and Telescope*) will find this book invaluable and fascinating. It includes detailed up-to-date information on sources, selection and use of virtually

every major type, brand and model of such instruments on today's market. The book also includes details on the latest released telescope lines, e.g. the 10-, 12-, 14- and 16-inch aperture models of the Meade LX-R series. As a former editor for *Sky & Telescope*, *Astronomy*, and *Star & Sky* magazines, the author is the ideal person to write this book.

A Buyer's and User's Guide to Astronomical Telescopes & Binoculars Springer

This practical illustrated guide plots and describes the stars in the Southern Hemisphere throughout the year. Also provides information about topics such as our solar system, cosmic debris, telescopes and binoculars, and gives a brief history of star-gazing. The author is a well-known astronomer, presenter of the BBC television program, 'The Sky at Night', and has written many books and technical papers. Includes astronomical data, a glossary and an index.

An Introduction for the Amateur Astronomer Cambridge University Press

Provides easy to understand information and guidelines about the design and construction of binoscopes Focusing on both homemade and commercial products, this book provides the reader with simple and straightforward information about the modelling and building of binoscopes. Binoscopes can be thought of as binoculars enlarged to the size of telescopes: essentially, a combination of the two. Constructing a binoscope is easier than most people think, but it still demands attention to detail and proper background knowledge. The author goes on to provide additional information about how to understand the products currently on the market, should the reader choose to purchase a

binoscope instead of building one. Lastly, the book also compares binoscopes with telescopes in great detail, outlining the differences the reader can expect to see in the night sky from using both. The celestial views obtained with a binoscope, compared to a single telescope of the same aperture, are a very different experience and well worth the effort.

A Guide for Amateur Astronomers Springer Science & Business Media

Viewing and Imaging the Solar System: A Guide for Amateur Astronomers is for those who want to develop their ability to observe and image Solar System objects, including the planets and moons, the Sun, and comets and asteroids. They might be beginners, or they may have already owned and used an astronomical telescope for a year or more. Newcomers are almost always wowed by sights such as the rings of Saturn and the moons of Jupiter, but have little idea how to find these objects for themselves (with the obvious exceptions of the Sun and Moon). They also need guidance about what equipment, besides a telescope, they will need. This book is written by an expert on the Solar System, who has had a lot of experience with outreach programs, which teach others how to make the most of relatively simple and low-cost equipment. That does not mean that this book is not for serious amateurs. On the contrary, it is designed to show amateur astronomers, in a relatively light-hearted—and math-free way—how to become serious.

Eyes on the Universe Springer Science & Business Media Astrophysics is often –with some justification – regarded as incomprehensible without the use of higher mathematics. Consequently, many amateur astronomers miss out on some of

the most fascinating aspects of the subject. *Astrophysics Is Easy!* cuts through the difficult mathematics and explains the basics of astrophysics in accessible terms. Using nothing more than plain arithmetic and simple examples, the workings of the universe are outlined in a straightforward yet detailed and easy-to-grasp manner. The original edition of the book was written over eight years ago, and in that time, advances in observational astronomy have led to new and significant changes to the theories of astrophysics. The new theories will be reflected in both the new and expanded chapters. A unique aspect of this book is that, for each topic under discussion, an observing list is included so that observers can actually see for themselves the concepts presented – stars of the spectral sequence, nebulae, galaxies, even black holes. The observing list has been revised and brought up-to-date in the Second Edition.

Binocular Stargazing The History Press

Binoculars have, for many, long been regarded as an “entry level” observational tool, and relatively few have used them as a serious observing instrument. This is changing! Many people appreciate the relative comfort of two-eyed observing, but those who use binoculars come to realize that they offer more than comfort. The view of the stars is more aesthetically pleasing and therefore binocular observers tend to observe more frequently and for longer periods. “*Binocular Astronomy*”, 2nd edition, extends its coverage of small and medium binoculars to large and giant (i.e., up to 300mm aperture) binoculars and also binoviewers, which brings the work into the realm of serious observing instruments. Additionally, it goes far deeper into the varying optical characteristics of binoculars, giving newcomers

and advanced astronomers the information needed to make informed choices on purchasing a pair. It also covers relevant aspects of the physiology of binocular (as in “both eyes”) observation. The first edition of this title was praised for its suggested objects for observation and especially for the finder charts for each object. In this second edition, this section is expanded in three ways. There are new objects, with more information on each object, and a re-organization of the objects for binoculars for easier selection for readers. “*Binocular Astronomy*” 2nd Edition puts an emphasis on understanding binoculars and their use. The additional content in this second edition reflects the latest developments in technology, available testing techniques, and practical ideas for binocular use. It also responds to the substantially positive reviews of the first edition, and is now even better suited to its target readership.

The Photographic Atlas of the Stars Springer Science & Business Media

Steve Coe has been watching the deep sky from locations near his home in Arizona for almost 20 years. During that time he has accumulated a wealth of knowledge, observations, hints and tips that will help every deep sky observer, regardless of experience. This, his first book, gives detailed practical advice about how to find the best observing site, how to make the most of the time spent there, and what equipment and instruments to take along. There are comprehensive lists of deep sky objects of all kinds, along with Steve's own observations describing how they look through telescopes with apertures ranging from 8 to 36 inches (0.2 - 0.9 m). Most of all, this book is all about how to enjoy astronomy. Steve's enthusiasm and sense of wonder shine

through every page as he invites you along on a tour of some of the most beautiful and fascinating sites in the deep sky.

[The Casual Sky Observer's Guide Binocular Astronomy](#)

From the reviews: "I recommend it to anyone with an interest in binary stars who wants to learn more about these fascinating objects." (Jocelyn Tomkin, The Observatory, April 2005)

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