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The Stargazer's Guide to the Night Sky
The Monthly Sky Guide
Double Stars for Small Telescopes
The Cambridge Double Star Atlas
A Stargazing Program for Beginners
Bright Sky, Starry City
A Buyer's and User's Guide to Astronomical Telescopes & Binoculars
See It with a Small Telescope
2022 Night Sky Almanac

MONICA BOWERS

Choosing and Using a Refracting

Telescope New Leaf Publishing Group
Have fun exploring the stars with close-up views of space objects right from your own backyard! Take the mystery and struggle out of discovering new worlds. With hands-on tips, tricks, and instructions, this book allows you to unleash the full power of your small telescope and view amazing space objects right from your own backyard, including: • Saturn's Rings • Jupiter's Moons • Apollo 11's Landing Site • Orion Nebula • Andromeda Galaxy • Polaris Double Star • Pegasus Globular Cluster • and much, much more! "An observation guide, mentor, and historical tour all in one." —Space.com

Binocular Stargazing John Wiley & Sons
Take a tour of the universe with Sky & Telescope Contributing Editor Sue French. With 60 Small Scope Sampler columns, you will be out and exploring the wonders of the night sky in no time. Most of the objects are visible in a 4-inch telescope, making this full-color and easy-to-use book perfect for the backyard astronomer!

Night Sky With the Naked Eye Stackpole Books

Can you remember being impressed by a clear starry sky? Look at the Milky Way through binoculars and it will reveal its many hundreds of thousands of stars, double stars, stellar clusters, and nebulae. If you are a new observer, it is not that easy to find your way in this swarm of stars, but this atlas tries to make it as easy as possible. So now it is not just experienced amateurs that can enjoy looking at the heavens. Two additional observing aids are recommended. The first is a planisphere, where one can dial in the time

and day in order to see which constellations are visible and where they are in the sky. The second is an astronomical yearbook. It lists the current positions of the planets and all important phenomena. So, let us begin our journey around the night sky, and see what the universe can reveal to us! Facing page, top: The constellation Cygnus (Swan) in the midst of the northern Milky Way. The photograph gives an impression of the uncountable stars in our Milky Way. This becomes more conspicuous when you sweep through Cygnus with binoculars. Under a very dark sky, one can try to find the North America Nebula, Pelican Nebula, and Veil Nebula (see p. 47). These are difficult nebulae and are only barely visible on this photograph as well.

NightWatch Sourcebooks, Inc.

With over 100,000 copies sold since first publication, this is one of the most popular astronomy books of all time. It is a unique guidebook to the night sky, providing all the information you need to observe a whole host of celestial objects. With a new spiral binding, this edition is even easier to use outdoors at the telescope and is the ideal beginner's book. Keeping its distinct one-object-per-spread format, this edition is also designed for Dobsonian telescopes, as well as for smaller reflectors and refractors, and covers Southern hemisphere objects in more detail. Large-format eyepiece views, positioned side-by-side, show objects exactly as they are seen through a telescope, and with improved directions, updated tables of astronomical information and an expanded night-by-night Moon section, it has never been easier to explore the night sky on your own. Many additional resources are available on the accompanying website,

www.cambridge.org/turnleft.

Celestial Sampler Firefly Books Limited
The Casual Sky Observer's Pocket Guide offers an observing program for occasional amateur observers looking for some quick, fun astronomy adventures under the stars. In the real world, where time for observing is limited, the weather is seldom perfect, and expensive equipment is not an option, amateur astronomy may not be seen as a worthwhile activity. However, portable and quick-to-set-up instruments are available. A pair of binoculars or a small telescope fills the bill. And the way to make the most of these instruments is described in the Casual Sky Observer's Pocket Guide. Not only does the book feature the best and brightest showpieces of the heavens; it also provides a great deal of physical and environmental data as well as lots of fascinating information and beautiful illustrations that provide a unique perspective on the many treasures within and beyond our home galaxy, the Milky Way--stars, star clusters, other galaxies, and nebulae, all within reach of binoculars or a small telescope.

Sky and Telescope Pocket Sky Atlas
Springer

Binocular Highlights is a tour of 109 different celestial sights--from softly glowing clouds of gas and dust to unusual stars, clumps of stars, and vast star cities (galaxies)--all visible in binoculars. Each object is plotted on a detailed, easy-to-use star map, and most of these sights can be found even in a light-polluted sky. Also included are four seasonal all-sky charts that help locate each highlight. You don't need fancy or expensive equipment to enjoy the wonders of the night sky. In fact, as even experienced stargazers know, to go beyond the naked-eye sky and delve

deep into the universe, all you need is a pair of binoculars--even the ones hanging unused in your closet. If you don't own any, *Binocular Highlights* explains what to look for when choosing binoculars for stargazing and provides observing tips for uses of these portable and versatile mini-telescopes.

Deep-Sky Wonders Sky Publishing Corporation

This catalog of double stars is among the most comprehensive ever printed. With over 2,100 star pairings listed with coordinates, color, and interesting information about every pair, *Double Stars for Small Telescopes* is an essential addition to the library of every astronomy enthusiast. 248 pages, 8 1/2 x 11 inches, softcover.

Telescopes and Techniques Sky & Telescope

Choosing and Using a Refracting Telescope has been written for the many amateur astronomers who already own, or are intending to purchase, a refracting telescope - perhaps to complement their existing arsenal of larger reflecting telescopes - or for the specialist who requires a particular refractor for serious astronomical applications or nature studies. Four hundred year ago, during the winter of 1609, a relatively unknown Italian scientist, Galileo Galilei designed a spyglass with two crude lenses and turned it skyward. Since then, refractors have retained their dominance over all types of reflector in studies of the Moon, planets and double stars because of the precision of their optics and lack of a central obstruction in the optical path, which causes diffraction effects in all commercially-made reflectors. Most mature amateur astronomers got started with a 60mm refractor, or something similar. Thirty years ago, there was little choice available to the hobbyist, but in

the last decade long focus crown-flint achromats have moved aside for some exquisitely crafted apochromatic designs offered by leading commercial manufacturers. There has been a huge increase in the popularity of these telescopes in the last few years, led by a significant increase in the number of companies (particularly, William Optics, Orion USA, StellarVue, SkyWatcher and AstroTech) who are now heavily marketing refractors in the amateur astronomical magazines. In *Choosing and Using a Refracting Telescope*, well-known observer and astronomy writer Neil English celebrates the remarkable history and evolution of the refracting telescope and looks in detail at the instruments, their development and their use. A major feature of this book is the way it compares not only different classes of refractor, but also telescopes of each class that are sold by various commercial manufacturers. The author is perhaps uniquely placed to do this, having used and tested literally hundreds of different refracting telescopes over three decades. Because it includes many diverse subjects such as imaging with consumer-level digital cameras, imaging with webcams, and imaging with astronomical CCD cameras – that are not covered together in equal depth in any other single volume – *Choosing and Using a Refracting Telescope* could become the ‘refractor bible’ for amateur astronomers at all levels, especially those who are interested in imaging astronomical objects of every class.

[Sky Atlas 2000.0](#) National Geographic Serves as a useful reference guide to stargazers around the world.

[The Cambridge Star Atlas](#) Sky & Telescope

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.

[Night Sky Journal](#) Firefly Books

Sets out a simple month-by-month program to reveal all of the night sky's biggest and most beautiful secrets in just one year – and with only a few hours of stargazing each month. By investing just an hour a week and \$50 in binoculars, it's possible to learn a few simple techniques and quickly gain a real insight into the night sky's ever-changing patterns – and what they tell us about Earth, the seasons and ourselves. Searching more for a learned appreciation of nature and our exact place within the cosmos than academic scientific knowledge, science and travel writer Jamie Carter takes the reader on a 12 month tour of the night sky's incredible annual rhythms that say so much about Earth. During the journey he learns about the celestial mechanics at work in the skies above that are – to the beginner – almost beyond belief. As well as the vital constellations and clusters, and the weird and wonderful nebulas, he searches out “dark sky destinations” across the globe that help increase knowledge and give a new perspective on familiar night sky sights. On the

journey he witnesses a solar eclipse and grapples with star-charts, binoculars, smartphone apps, telescopes, spots satellites and attempts basic astro-photography. By year's end, the reader will be able to glance at the night sky from anywhere on the planet and tell what direction he or she is facing, what time it is, where all the planets are and even where the Galactic Center Point is.

The Casual Sky Observer's Guide

Cambridge University Press

The Casual Sky Observer's Pocket Guide offers an observing program for occasional amateur observers looking for some quick, fun astronomy adventures under the stars. In the real world, where time for observing is limited, the weather is seldom perfect, and expensive equipment is not an option, amateur astronomy may not be seen as a worthwhile activity. However, portable and quick-to-set-up instruments are available. A pair of binoculars or a small telescope fills the bill. And the way to make the most of these instruments is described in the Casual Sky Observer's Pocket Guide. Not only does the book feature the best and brightest showpieces of the heavens; it also provides a great deal of physical and environmental data as well as lots of fascinating information and beautiful illustrations that provide a unique perspective on the many treasures within and beyond our home galaxy, the Milky Way--stars, star clusters, other galaxies, and nebulae, all within reach of binoculars or a small telescope.

National Geographic Backyard Guide to the Night Sky, 2nd Edition Springer

Science & Business Media

Amateur astronomers of all skill levels are always contemplating their next telescope, and this book points the way to the most suitable instruments.

Similarly, those who are buying their first telescopes – and these days not necessarily a low-cost one – will be able to compare and contrast different types and manufacturers. This exciting and revised new guide provides an extensive overview of binoculars and telescopes. It includes detailed up-to-date information on sources, selection and use of virtually every major type, brand, and model on today's market, a truly invaluable treasure-trove of information and helpful advice for all amateur astronomers.

Originally written in 2006, much of the first edition is inevitably now out of date, as equipment advances and manufacturers come and go. This second edition not only updates all the existing sections of "A Buyer's and User's Guide to Astronomical Telescopes and Binoculars" but adds two new ones: Astro-imaging and Professional-Amateur collaboration. Thanks to the rapid and amazing developments that have been made in digital cameras – not those specialist cool-chip astronomical cameras, not even DSLRs, but regular general-purpose vacation cameras – it is easily possible to image all sorts of astronomical objects and fields.

Technical developments, including the Internet, have also made it possible for amateur astronomers to make a real contribution to science by working with professionals. Selecting the right device for a variety of purposes can be an overwhelming task in a market crowded with observing options, but this comprehensive guide clarifies the process. Anyone planning to purchase binoculars or telescopes for astronomy – whether as a first instrument or as an upgrade to the next level – will find this book a treasure-trove of information and advice. It also supplies the reader with many useful hints and tips on using

astronomical telescopes or binoculars to get the best possible results from your purchase.

The Casual Sky Observer's Guide

Cambridge University Press

The Cambridge Double Star Atlas is back! It is the first and only atlas of physical double stars that can be viewed with amateur astronomical instruments. Completely rewritten, this new edition explains the latest research into double stars, and looks at the equipment, techniques and opportunities that will enable you to discover, observe and measure them. The target list has been completely revised and extended to 2500 binary or multiple systems. Each system is described with the most recent and accurate data from the authoritative Washington Double Star Catalog, including the HD and SAO numbers that are most useful in our digital age. Hundreds of remarks explain the attributes of local, rapidly changing, often measured or known orbital systems. The color atlas charts by Wil Tirion have been updated to help you easily find and identify the target systems, as well as other deep-sky objects. This is an essential reference for double star observers.

Turn Left at Orion

Night Sky Notebook 8"X10" inches 110 prompted fill in pages Cute Matte Cover Happy observing! There are several approaches to recording observations in the night sky ranging from naked eye observations and interpretations to highly scientific observations using instruments. Night Sky Journal is great for beginning astronomers, and assumes only that the user has access to a telescope. There is space for to sketch observations using both low and high power in their telescopes. (Low power can give more of an overview of a

celestial object while higher power can zoom you in for more detail). Lots of space to jot the basic settings of their telescope and make notes about what they observed. Great for children, teamed with learning how to use a telescope and being outdoors can sketch what objects they saw in the sky, space to chart out stars they spotted, or to write down how watching the sky made them feel. For more seasoned astronomers and astrologers, sky notes could more focus on astrological movements and their meanings. Consider adding Night Sky Journal to your learning shelf. If you have knowledge of the subject, think about issuing a challenge to your kids or student class to observe particular objects in the sky over a period of time or even integrate these pages with a learning worksheet that highlights special events in the night sky - eclipses, passing comets and so on.... Makes A Great Gift Under 10 For: Students Teachers Kids Moms Homeschooling Classrooms Future Astronomers stocking stuffers Birthday Space Themed Birthday Parties

[Astronomy For Dummies](#) Springer Science & Business Media

A little girl and her father have an opportunity to appreciate the wonders of the night sky. Phoebe helps her dad set up telescopes on the sidewalk outside his store. It's a special night — Saturn and Mars are going to appear together in the sky. But will Phoebe be able to see them with all the city lights? Raindrops begin to fall, followed by lightning and thunder. Phoebe is filled with disappointment as she and her father hurry inside to wait out the storm. But suddenly the power fails and then, amazingly, the rain and clouds disappear. Phoebe and her dad and all

kinds of people spill into the street. And there, in the bright night sky, the splendor of the planets and a multitude of stars are revealed for all to see. An illustrated afterword includes information about the solar system, planetary conjunctions and rings, moons, telescopes and light pollution. A glossary and recommended further reading are also included. Correlates to the Common Core State Standards in English Language Arts: CCSS.ELA-LITERACY.RL.1.3 Describe characters, settings, and major events in a story, using key details. CCSS.ELA-LITERACY.RL.2.1 Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text. CCSS.ELA-LITERACY.RL.2.7 Use information gained from the illustrations and words in a print or digital text to demonstrate understanding of its characters, setting, or plot.

Earths of Distant Suns Cambridge University Press

The original Pocket Sky Atlas, introduced in 2006, has proven wildly popular for use with portable telescopes. This newly revised edition of the jumbo version covers the whole sky with the same 80 charts, magnified to 132 percent.

Binocular Highlights Firefly Books

The touchstone for contemporary stargazers. This classic, groundbreaking guide has been the go-to field guide for both beginning and experienced amateur astronomers for nearly 30 years. The fourth edition brings Terence Dickinson and Alan Dyer's invaluable manual completely up-to-date. Setting a new standard for astronomy guides, it will serve as the touchstone for the next generation of stargazers as well as longtime devotees. Technology and astronomical understanding are evolving

at a breathtaking clip, and to reflect the latest information about observing techniques and equipment, this massively revised and expanded edition has been completely rebuilt (an additional 48 pages brings the page count to 416). Illustrated throughout with all-new photographs and star charts, this edition boasts a refreshed design and features five brand-new chapters, including three essential essays on binocular, telescope and Moon tours by renowned astronomy writer Ken Hewitt-White. With new content on naked-eye sky sights, LED lighting technology, WiFi-enabled telescopes and the latest advances in binoculars, telescopes and other astronomical gear, the fourth edition of *The Backyard Astronomer's Guide* is sure to become an indispensable reference for all levels of stargazers. New techniques for observing the Sun, the Moon and solar and lunar eclipses are an especially timely addition, given the upcoming solar eclipses in 2023 and 2024.

Rounding out these impressive offerings are new sections on dark sky reserves, astro-tourism, modern astrophotography and cellphone astrophotography, making this book an enduring must-have guide for anyone looking to improve his or her astronomical viewing experience. *The Backyard Astronomer's Guide* also features a foreword by Dr. Sara Seager, a Canadian-American astrophysicist and planetary scientist at the Massachusetts Institute of Technology and an internationally recognized expert in the search for exoplanets.

Sky & Telescope's Pocket Sky Atlas Jumbo Edition Springer Science & Business Media

The perfect starter astronomy guide to night viewing. *101 Objects to See in the Night Sky* is a fun and practical guide to

identifying and observing 101 of the most fascinating and exciting sights in the northern night sky. Designed for newcomers to astronomy, the book explains what can be seen using the naked eye, binoculars or a telescope. In the book, professional astronomer Robin Scagell shows the novice astronomer where to look in the sky to see a particular object, or group of objects or sights. They may be a planet, its rings or satellites, a series of lunar craters, a constellation, asteroids, meteors, a nebula, galaxy or star cluster, for example. He describes the object in detail and gives observing tips to improve viewing skills. Informative "Where to find it" instructions and "What you'll see" explanations for each object give night sky viewers an extra hand. A concise "fact file" is provided for each object, and readers can award themselves "points" for their skill in finding the object, with higher scores given for spotting the night sky's more elusive or hard-to-see features. The book is organized by season -- winter, spring, summer, fall -- with an opening section on "things you need to know," such as marker objects (for example, Sirius, the brightest star in winter's night sky) and how to use them to search beyond. It also covers such topics as asteroids and dwarf planets, noctilucent clouds, northern lights, the International Space Station, sunspots, eclipses and much

more. *101 Objects to See in the Night Sky* is an ideal guide for astronomy novices and classrooms.

The Observer's Sky Atlas Sky Publishing
Understand and Enjoy the Wonders of the Stars with Fun Activities for the Whole Family Gain a deeper appreciation of the universe and our place in it with *Night Sky with the Naked Eye*. Learn how to spot the International Space Station, follow the moon through its phases, forecast an aurora and watch a meteor shower along with traditional night sky activities such as identifying the bright planets, stars and constellations. Fun activities embrace modern technology with the best apps and websites that make it easy for anyone to observe the greatest spectacles of the sky without a telescope or other expensive equipment. An expert in his field, Bob King teaches night sky courses and makes cosmic mysteries practical and accessible for skywatchers new and old. Understand what makes stars twinkle and where meteors come from in this complete guide to the heavens. Unique illustrations and stunning photos help the reader understand the concepts presented. Tips on how to photograph satellites, eclipses and the aurora are also included. Unravel the secrets of the universe while deepening your appreciation of its beauty through this clear and concise guide.