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## Orion Autoguider Sale

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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. Welcome to the first comprehensive guide to one of the world's most popular telescopes: the ShortTube 80 refractor. With its ultra-portability, versatility, and relatively low cost, this telescope continues to delight generations of stargazers. Starting in the field under a dark sky, the author walks the reader through a typical evening of stargazing, where the ShortTube 80 brings many astronomical treasures into focus. From there, he provides an in – depth account of the optical properties of the ShortTube 80 refractor and the accessories and mounting arrangements that maximize its potential both as a spotting ‘scope by day and an astronomical ‘scope by night. The main text discusses how the versatile ShortTube 80 can be used to study deep sky objects, the Sun, the Moon, bright planets and even high-resolution projects, where the instrument's features can be optimized for the observation of tight double and multiple stars. It explores how the ShortTube 80 can

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image targets using camera phones, DSLRs and dedicated astronomical CCD imagers. Packed with practical advice gained from years of firsthand stargazing experience, this book demonstrates exactly why ShortTube 80 has remained a firm favorite among amateur astronomers for over three decades, and why it is likely to remain popular for many years to come. A simple guide to the location and recognition of stars and constellations, mainly in the northern latitudes

When the fuzzy indeterminacy of quantum mechanics overthrew the orderly world of Isaac Newton, Albert Einstein and Erwin Schrödinger were at the forefront of the revolution. Neither man was ever satisfied with the standard interpretation of quantum mechanics, however, and both rebelled against what they considered the most preposterous aspect of quantum mechanics: its randomness. Einstein famously quipped that God does not play dice with the universe, and Schrödinger constructed his famous fable of a cat that was neither alive nor dead not to explain quantum mechanics but to highlight the apparent absurdity of a theory gone wrong. But these two giants did more than just criticize: they fought back, seeking a Theory of Everything that would make the universe seem sensible again. In Einstein's Dice and Schrödinger's Cat, physicist Paul Halpern tells the little-known story of how Einstein and Schrödinger searched, first as collaborators and then as competitors, for a theory that transcended quantum weirdness. This story of their quest—which ultimately

failed—provides readers with new insights into the history of physics and the lives and work of two scientists whose obsessions drove its progress. Today, much of modern physics remains focused on the search for a Theory of Everything. As Halpern explains, the recent discovery of the Higgs Boson makes the Standard Model—the closest thing we have to a unified theory—nearly complete. And while Einstein and Schrödinger failed in their attempt to explain everything in the cosmos through pure geometry, the development of string theory has, in its own quantum way, brought this idea back into vogue. As in so many things, even when they were wrong, Einstein and Schrödinger couldn't help but get a great deal right.

Choosing and Using a Refracting Telescope  
How to Use the Star Book TEN and the Original Star Book  
The Observer's Sky Atlas With 50 Star Charts Covering the Entire Sky  
Getting Started  
Care of Astronomical Telescopes and Accessories  
The Vixen Star Book User Guide  
Discover Beautiful Nebulas, Constellations, Deep Sky Objects and More with Your Telescope  
David Dickinson, co-author of The Universe Today Ultimate Guide to Viewing the Cosmos, has created the ultimate field guide for backyard astronomers. Whether you want to impress viewers at a star party, or learn what you can see with your new telescope, David shows you

how to find the most impressive views the night sky has to offer. Broken down by month and by hemisphere to ensure you get the best possible view, David shows you how to find objects like spiral galaxies, stunning sights in the Milky Way and stars that bring the “wow factor” to astronomy. With 44 sky charts and David's expertise, it's like having a pro-astronomer out in the field with you.

The Orion Telescope Observer's Guide highlights over sixty interesting objects for budding amateur astronomers to find and observe in a small telescope. We'll help you explore objects such as star clusters, multiple stars, nebulae, and even the Andromeda Galaxy! Helpful maps of each target object are included, as are examples of what the object will look like in a typical finderscope, and depictions of the view you'll see in a telescope eyepiece. The author also includes a realistic description of every object based upon his own notes written over years of observations. Written with the beginner in mind, the Orion Telescope Observer's Guide also includes vital tips and tricks to help you get the most out of the rewarding hobby of amateur astronomy. If you're new to

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stargazing with a small telescope, this book is your introduction to the stars! 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. Astrophotography can be one of the most rewarding pursuits of a lifetime, it can also be one of the most daunting. This book uses over 200 illustrations, images, charts and graphs in addition to the text to help you understand what equipment you will need and how to make it all work so you can create breathtaking images of the heavens. From purchasing your first astrophotography telescope, hooking up your camera, taking long exposure images, and finally processing that finished image, this book will be your indispensable guide. If you have ever wanted to take photographs of glowing nebulae, spiral galaxies and shimmering star clusters, this is the reference you want on your desk as well as with you out under the stars. It will take you on a journey exploring in-depth details of field rotation and focusing

methods, as well as explaining not just the what and how, but the ever important why. Actually see why you stack multiple images and what effect it has. Don't just read about how the atmosphere affects imaging, see it through experimentation that you can do at home on your own!

The Cambridge Star Atlas  
A Practical and Scientific Approach to Deep Sky Imaging  
A Child's Introduction to the Night Sky (Revised and Updated)  
A User's Guide  
The Art of Astrophotography  
Night Sky Almanac 2022: A stargazer's guide  
The Story of the Stars, Planets, and Constellations--and How You Can Find Them in the Sky  
A valuable reference that fills a number of niches including that of a buyer's guide, technical desk reference and observer's field guide. It documents the past market and its evolution, right up to the present day. In addition to appealing to practical astronomers - and potentially saving them money - it is useful both as a historical reference and

as a detailed review of the current market place for this bustling astronomical consumer product. What distinguishes this book from other publications on astronomy is the involvement of observers from all aspects of the astronomical community, and also the major manufacturers of equipment. It not only catalogs the technical aspects of the many modern eyepieces but also documents amateur observer reactions and impressions over the years, using many different eyepieces. Eyepieces are the most talked-about accessories and collectible items available to the amateur astronomer. No other item of equipment commands such vigorous debate, or has evolved into such a remarkable array of forms and functions. 'Choosing and Using Astronomical Eyepieces' provides a vast amount of reference material to point readers towards the best buys and the

right eyepieces for different kinds of observing. Discusses the practical aspects of stargazing, including how to choose appropriate equipment, contending with light pollution, taking successful photographs of galaxies and nebulas, and selecting an observing site. The Astrophotography Manual is for those photographers who aspire to move beyond using standard SLR cameras and editing software, and who are ready to create beautiful images of nebulas, galaxies, clusters, and the solar system. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing and using equipment through image capture, calibration, and processing. This combination of technical background information and the hands-on approach brings the science down to earth with a practical method to plan for success. Features include: Over

400 images, graphs, and tables to illustrate these concepts A wide range of hardware to be used, including smartphones, tablets, and the latest mount technologies How to utilize a variety of leading software such as Maxim DL, Nebulosity, Sequence Generator Pro, Photoshop, and PixInsight Case studies showing how and when to use certain tools and overcoming technical challenges How sensor performance and light pollution relate to image quality and exposure planning The Biographical Encyclopedia of Astronomers is a unique and valuable resource for historians and astronomers alike. The two volumes include approximately 1550 biographical sketches on astronomers from antiquity to modern times. It is the collective work of about 400 authors edited by an editorial board of 9 historians and astronomers, and provides additional details on the nature of

summary statistics on the content of entries. This new reference provides biographical information on astronomers and cosmologists by utilizing contemporary historical scholarship. Individual entries vary from 100 to 1500 words, including the likes of the superluminaries such as Newton and Einstein, as well as lesser-known astronomers like Galileo ' s acolyte, Mario Guiducci. A comprehensive contributor index helps researchers to identify the authors of important scientific topics and treatises. NightWatch Lessons from the Masters Wil Tirion's Bright Star Atlas 2000.0 Astro-Imaging Projects for Amateur Astronomers The Astrophotography Manual Telescope Observer's Guide Star Ware This is the must-have guide for all amateur astronomers who double as makers, doers,

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tinkerers, problem-solvers, and inventors. In a world where an amateur astronomy habit can easily run into the many thousands of dollars, it is still possible for practitioners to get high-quality results and equipment on a budget by utilizing DIY techniques. Surprisingly, it's not that hard to modify existing equipment to get new and improved usability from older or outdated technology, creating an end result that can outshine the pricey higher-end tools. All it takes is some elbow grease, a creative and open mind and the help of Chung's hard-won knowledge on building and modifying telescopes and cameras. With this book, it is possible for readers to improve their craft, making their equipment more user friendly. The tools are at hand, and the advice on how to do it is here. Readers will discover a comprehensive presentation of astronomical projects that any amateur on any budget can replicate – projects that utilize leading edge technology and techniques sure to invigorate the experts and elevate the less experienced. As the "maker" community continues to expand, it has wonderful things to offer amateur astronomers with a willingness to get their hands dirty. Tweaking observing and imaging equipment so that it serves a custom purpose can take your observing options to the next level, while being fun to boot. Driven by discoveries, and enabled by leaps in technology and imagination, our understanding of the universe has changed dramatically during the course of the last few decades. The fields of astronomy and astrophysics are making new connections to physics, chemistry, biology, and computer science. Based on a broad and comprehensive survey of scientific opportunities, infrastructure, and organization in a national and international context, *New Worlds, New Horizons in Astronomy and Astrophysics* outlines a plan for ground- and space- based astronomy and astrophysics for the decade of the 2010's. Realizing these scientific opportunities is contingent upon maintaining and strengthening the foundations of the research enterprise including technological development, theory, computation and data handling, laboratory experiments, and human resources. *New Worlds, New Horizons in Astronomy and Astrophysics* proposes enhancing innovative but moderate-cost programs in space and on the ground that will enable the community to respond rapidly and flexibly to new scientific discoveries. The book recommends beginning construction on survey telescopes in space and on the ground to investigate the nature of dark energy, as well as the next generation of large ground-based giant optical telescopes and a new class of space-based gravitational observatory to observe the merging of distant black holes and precisely test theories of gravity. *New Worlds, New Horizons in Astronomy and Astrophysics* recommends a balanced and executable program that will support research surrounding the most profound questions about the cosmos. The discoveries ahead will facilitate the search for habitable planets, shed light on dark energy and dark matter, and aid our understanding of the history of the universe and how the earliest stars and galaxies formed. The book is a useful resource for agencies supporting the field of astronomy and astrophysics, the Congressional committees with jurisdiction over those agencies, the scientific community, and the public. The perfect gift for amateur and seasoned astronomers. Follow the progress of constellations throughout the seasons with this beautiful companion to the night sky from Astronomy experts Collins. There are many books covering different facets of astrophotography, but few of them contain all the necessary steps for beginners in one accessible place. *Astrophotography is Easy!* fills that void, serving as a guide to

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anybody interested in the subject but starting totally from scratch. Assuming no prior experience, the author runs through the basics for how to take astrophotos using just a camera—including cell phones and tablets—as well as a telescope and more sophisticated equipment. The book includes proven techniques, checklists, safety guidelines, troubleshooting tips, and more. Each chapter builds upon the last, allowing readers to master basic techniques before moving on to more challenging material. Also included is a comprehensive list of additional books and resources on a variety of topics so readers can continue expanding their skills.

*Astrophotography Is Easy!*  
doesn't simply teach you the basic skills for becoming an astrophotographer: it provides you with the foundations you will need for a lifelong pursuit.  
*Stargazing Under Suburban Skies*

*50 Things to See on the Moon*  
*The Practical Astronomer*  
*Inside PixInsight*

*A New Way to See Them*  
*The Deep-sky Imaging Primer*  
*Binocular Stargazing*

Anyone interested in astronomy battles with the conveniences of modern living – street lights, advertising and security lighting, tall buildings, and even the occasional tree. More than 85% of the population now lives in crowded and light-polluted towns and cities. This book is for those

who live in or near towns and cities and own relatively modest equipment, although observers with larger instruments will still find many of the target objects of interest. The book encourages the use of star-hopping techniques to find objects in the night sky. Included is a list of 100 popular deep sky objects, ranked according to how difficult they are to find. Each object is described and has companion star-hopping charts, images and sometimes sketches. As a result, readers can gain a sense of their own backyard view from Earth. There is also a top 30 list of lunar objects, a section on planetary observing, annotated lists of popular astronomy apps and software, and tips on how to make the most of your location. *Stargazing Under Suburban Skies: A Star-Hopper's Guide* is the essential companion to what can be seen and how, regardless of the obstacles.

This book de-mystifies the jargon of webcams and computer processing, and provides detailed hints and tips for imaging the Sun, Moon and planets with a webcam. It demonstrates how inexpensive tools are revolutionizing imaging in amateur astronomy. Anyone with a modest telescope and a webcam can now obtain jaw-dropping lunar and planetary images to rival those taken with mid-range astronomical CCD cameras costing thousands of dollars. A glance through the images in this book shows just what spectacular results can be achieved by using a webcam with your telescope! Your scientific results will be sought by professional astronomers. 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.

This unique and informative text describes how stars are classified according to their spectral qualities and temperature. James Kaler explains the alphabet of stellar astronomy, running from cool M stars to hot O stars, and tells the story of their evolution. Before embarking on a voyage of cosmic discovery, the author discusses the fundamental properties of stars, their atomic structure and the formation of spectra. Then, Kaler considers each star type individually and explores its spectra in detail. A

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review of unusual, hard-to-classify stars, and a discussion of data related to the birth, life and death of stars round out the text. This book is an important resource for all amateur astronomers and students of astronomy.

Professionals will find it a refreshing read as well.

A first-time stargazer's guide  
Biographical Encyclopedia of Astronomers

A Maker ' s Guide

Current Concepts in

Astronomical Image Processing

The Amateur Astronomer's

Guide to Choosing, Buying, and Using Telescopes and Accessories

How Two Great Minds Battled

Quantum Randomness to Create a Unified Theory of Physics

Choosing and Using

Astronomical Eyepieces

This book offers a

comprehensive introductory

guide to "choosing and

using" a series LX D55 or

LX D75 computer-controlled

("goto") telescope, containing a wealth of useful

information for both

beginners and more

advanced practical amateur

astronomers. The

manufacturer ' s manuals

are not nearly detailed

enough to be of real help to

beginners. No other book

offers advanced techniques

for more experienced LX D

series users.

The book that taught

thousands of people about

astrophotography has been

completely revised and

updated in this second edition. It covers everything you need to know to capture stunning images of deep-sky objects with a DSLR or CCD camera: The fundamental concepts of imaging and their impact on the final image How to pick a telescope and camera How to get set up and take the images Where and when to find the best objects in the night sky How to process images using Adobe Photoshop(R) and PixInsight(R) Start-to-finish examples of image processing Full-color with over 300 illustrations.

In The Art of

Astrophotography,

astronomer and Popular

Astronomy columnist Ian

Morison provides the

essential foundations of how

to produce beautiful

astronomical images. Every

type of astroimaging is

covered, from images of the

Moon and planets, to the

constellations, star clusters

and nebulae within our Milky

Way Galaxy and the faint

light of distant galaxies. He

achieves this through a series

of worked examples and

short project walk-throughs,

detailing the equipment

needed – starting with just a

DSLR (digital single lens

reflex) camera and tripod,

and increasing in complexity

as the book progresses -

followed by the way to best

capture the images and then

how, step by step, these may

be processed and enhanced

to provide results that can

rival those seen in

astronomical magazines and

books. Whether you are just

getting into astrophotography

or are already deeply

involved, Morison's advice

will help you capture and

create enticing astronomical

images.

Have you always wanted to

explore the Moon like Neil

Armstrong or the eleven

other astronauts who have

walked on its surface? You

can tour the Moon from your

own backyard with a small

telescope or binoculars. This

book will point you to the

Sea of Tranquility (the

landing spot for Apollo 11)

and many other fascinating

features you can spot on the

Moon's surface. Beginning

with the New Moon, as each

day passes, an additional slice

of the Moon becomes visible.

With each new slice comes

new craters, lunar seas and

jagged mountain ranges. This

easy-to-use, illustrated

reference book enables

everyone, young and old, to

better appreciate our nearest

neighbour in space.

Einstein's Dice and

Schrödinger's Cat

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The Stars  
A User's Guide to the Meade  
LXD55 and LXD75  
Telescopes  
Stars and Their Spectra  
Choosing and Using a New  
CAT

New Worlds, New Horizons  
in Astronomy and  
Astrophysics

The Backyard

Astronomer ' s Field Guide  
Provides information about the  
moon, star charts and monthly  
sky maps covering that which is  
visible each month in different  
hemispheres.

This book is based around the  
author ' s beautiful and  
sometimes awe-inspiring color  
images and mosaics of deep-  
sky objects. The book describes  
how similar "Hubble class"  
images can be created by  
amateur astronomers in their  
back garden using  
commercially available  
telescopes and CCD cameras.  
Subsequent processing and  
image enhancement in the  
"electronic darkroom" is  
covered in detail as well. A  
range of telescopes and  
equipment is considered, from  
the author ' s 11-inch with  
Hyperstar camera, down to  
more affordable instruments.  
Appendices provide links to  
free software – not available  
from a single source – and are  
themselves an invaluable  
resource.

There are currently thousands  
of amateur astronomers

around the world engaged in  
astrophotography at a  
sophisticated level. Their ranks  
far outnumber professional  
astronomers doing the same  
and their contributions both  
technically and artistically are  
the dominant drivers of  
progress in the field today. This  
book is a unique collaboration  
of individuals world-renowned  
in their particular area and  
covers in detail each of the  
major sub-disciplines of  
astrophotography. This  
approach offers the reader the  
greatest opportunity to learn  
the most current information  
and the latest techniques  
directly from the foremost  
innovators in the field today.

" Lessons from the Masters " includes a brilliant body of  
recognized leaders in  
astronomical imaging,  
assembled by Robert Gendler,  
who delivers the most current,  
sophisticated and useful  
information on digital  
enhancement techniques in  
astrophotography available  
today. Each chapter focuses on  
a particular technique, but the  
book as a whole covers all types  
of astronomical image  
processing, including processing  
of events such as eclipses, using  
DSLRs, and deep-sky,  
planetary, widefield, and high  
resolution astronomical image  
processing. Recognized  
contributors include deep-sky  
experts such as Jay GaBany,  
Tony Hallas, and Ken  
Crawford, high-resolution

planetary expert Damian Peach,  
and the founder of TWAN  
(The World at Night) Babak A.  
Tafreshi. A large number of  
illustrations (150, 75 in color)  
present the challenges and  
accomplishments involved in  
the processing of astronomical  
images by enthusiasts.

This charming exploration of  
the night sky -- featuring a star  
finder and glow-in-the-dark  
stickers -- which has more than  
a quarter of a million young  
astronomers enjoying the night  
sky in countries around the  
world, is now completely  
revised and updated. A Child's  
Introduction to the Night Sky is  
the perfect introduction to the  
always fascinating world of  
astronomy. Children ages eight  
and up will find out what  
astronomers have learned (and  
are still discovering), what  
astronauts and scientists  
explore, and what they can find  
by gazing up into the sky at  
night. Author Michael Driscoll  
explains how stars are born, the  
achievements of the great  
scientists, the history of space  
exploration, the story of our  
solar system, the myths behind  
the constellations, how to  
navigate the night sky, and  
more. Whimsical color  
illustrations throughout and  
handy definitions and sidebars  
help engage younger readers  
and develop their interest. Also  
included are a nifty star finder  
tool and fun glow-in-the-dark  
stickers.

A Manual for the Astronomical

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Observer and Amateur  
Telescope Maker  
Basics for Beginners  
Lunar and Planetary Webcam  
User's Guide  
Getting the Most from Your  
Schmidt Cassegrain or Any  
Catadioptric Telescope  
Kope's Outer Space Directory  
Long Exposure  
Astrophotography  
Building and Using Binoscopes  
For anyone who's ever  
looked at the night sky and  
wanted to know more about  
the galaxy around them, The  
Practical Astronomer offers a  
comprehensive guide to  
discovering and  
understanding the mysteries  
of the solar system and  
beyond. Illustrated with  
specially commissioned  
photography and artwork,  
and using clear, easy-to-  
follow text, The Practical  
Astronomer takes you on a  
step-by-step journey from  
the basics of what can be  
seen with the naked eye from  
your own backyard, to how  
you can view more distant  
objects such as the planets of  
the solar system, and even  
galaxies far, far away. The  
book opens with an  
explanation of the  
fundamentals of astronomy,  
detailing when, where, and  
how to look at the night sky.  
It goes on to cover the  
necessary equipment and  
clothing that the amateur

astronomer needs, reviewing  
optical equipment such as  
binoculars and telescopes,  
how they work and how to  
use them. A special section  
focuses on photography and  
covers the "how-to's" of  
capturing beautiful images of  
what you see. The Practical  
Astronomer aims to foster an  
awareness and understanding  
of what you're looking at-be  
it a planet, star, or asteroid.  
Different sections are devoted  
to looking at how the night  
sky changes, whether that's  
because it's viewed from a  
different place in the world or  
at a different time of year.  
Star charts and detailed maps  
of the night sky are included  
to aid budding astronomers  
in their quest to know more  
about this fascinating subject.  
First published in 1999, this is  
an expanded and updated  
edition of the best-selling,  
standard handbook on  
astrophotography for  
amateurs.  
Provides entries for space-  
related organizations  
This book is for anyone who  
owns, or is thinking of  
owning, a Vixen Star Book  
Ten telescope mount or its  
predecessor. A revolution in  
amateur astronomy has  
occurred in the past decade  
with the wide availability of  
high tech, computer-driven,  
Go-To telescopes. Vixen

Optics is leading the way by  
offering the Star Book Ten  
system, with its unique star  
map graphics software. The  
Star Book Ten is the latest  
version of computer telescope  
control using star map  
graphics as a user interface,  
first introduced in the  
original Star Book first  
offered in 2003. The  
increasingly complicated  
nature of this software means  
that learning to optimize this  
program is not  
straightforward, and yet the  
resulting views when all  
features are correctly  
deployed can be  
phenomenal. After a short  
history of computerized Go-  
To telescopes for the  
consumer amateur  
astronomer market, Chen  
offers a treasury of technical  
information. His advice, tips,  
and solutions aid the user in  
getting the most out of the  
Star Book Ten system in  
observing sessions.  
Astrophotography with  
Affordable Equipment and  
Software  
Astrophotography for the  
Amateur  
A Practical and Scientific  
Approach to Deep Space  
Imaging  
The Products, Places, and  
People Directory  
Orion  
The Short Tube 80

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## Telescope

### How to Find the Best Objects the Night Sky has to Offer

A reference guide for stargazers offers star charts and information on equipment, planets, and stellar photography.

Commercially-made astronomical telescopes are better and less expensive than ever before, and their optical and mechanical performance can be superb.

When a good-quality telescope fails to perform as well as it might, the reason is quite probably that it needs a little care and attention! Here is a complete guide for anyone who wants to understand more than just the basics of astronomical telescopes and accessories, and how to maintain them in the peak of condition. The latest on safely adjusting, cleaning, and maintaining your equipment is combined with thoroughly updated methods from the old masters. Here, too, are details of choosing new and used optics and accessories, along with enhancements you can make to extend their versatility and useful lifetime. This book is for you.

Really. Looking after an astronomical telescope isn't only for the experts - although there are some things that only an expert should attempt - and every serious amateur astronomer will find invaluable information here, gleaned from Barlow Pepin's many years' experience working with optical instruments.

The *Astrophotography Manual, Second Edition* is for photographers ready to move beyond standard SLR cameras and editing software to create beautiful images of nebulae,

galaxies, clusters, and the stars.

Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing and using equipment to image capture, calibration, and processing. This combination of technical background and hands-on approach brings the science down to earth, with practical methods to ensure success. This second edition now includes: Over 170 pages of new content within 22 new chapters, with 600 full-color illustrations. Covers a wide range of hardware, including mobile devices, remote control and new technologies. Further insights into leading software, including automation, Sequence Generator Pro and PixInsight Ground-breaking practical chapters on hardware and software as well as alternative astrophotography pursuits

PixInsight has taken the astro-imaging world by storm. As the first comprehensive postprocessing platform to be created by astro-imagers for astro-imagers, it has for many replaced other generic graphics editors as the software of choice. PixInsight has been embraced by professionals such as the James Webb (and Hubble) Space Telescope's science imager Joseph DePasquale and Calar Alto's Vicent Peris, as well as thousands of amateurs around the world. While PixInsight is extremely powerful, very little has been printed on the subject. The first edition of this book broke that mold, offering a comprehensive look into the software's capabilities. This second edition expands on the several new processes added to the PixInsight

platform since that time, detailing and demonstrating each one with a now-expanded workflow.

Addressing topics such as PhotometricColorCalibration, Large-Scale Pixel Rejection, LocalNormalization and a host of other functions, this text remains the authoritative guide to PixInsight.

An Introduction to the Spectral Sequence

Making Beautiful Deep-Sky Images

A Star-Hopper's Guide

The Backyard Astronomer's Guide

Astrophotography is Easy!

A Practical Guide to Viewing the Universe

Choosing and Using the New CAT will supersede the author's successful *Choosing and Using a Schmidt-Cassegrain Telescope*, which has enjoyed enthusiastic support from the amateur astronomy community for the past seven years. Since the first book was published, a lot has changed in the technology of amateur astronomy. The sophistication and variety of the telescopes available to amateurs has increased dramatically. Computerized SCTs, Maksutov-Cassegrains, and most recently Meade's new and acclaimed Ritchey-Chr é tiens have come to dominate the market. That means that all amateurs considering the purchase of a new telescope (not only a SCT, and not just beginners) will benefit from this detailed guide. Choosing the right

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telescope for particular kinds of observation (or even for general work) is far from easy – but Rod Mollise gives invaluable advice and guidance. 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.