

Choosing And Using A Refracting Telescope

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Celestial Harvest - James Mullaney 2013-05-27
Useful guide tells where to look for planets in Earth's solar system, as well as asteroids such as

Ceres and Juno, open star clusters, diffuse nebulas, supernova remnants, spiral galaxies, and other phenomena.

50 Things to See with a Telescope - Kids -

John A Read 2017-07-20

From the author of the bestselling book *50 Things to See with a Small Telescope*, this colorful edition explores the constellations with young readers, guiding them to dozens of galaxies, nebulae, and star clusters. Every page features a helpful "telescope view," showing exactly how objects appear through a small telescope or binoculars. While a member of the Mount Diablo Astronomical Society in California, John Read taught thousands of students how to use telescopes and explore the night sky. Now, he's sharing this knowledge with you! Even without a telescope, this introduction to the night sky is essential for every child's collection.

Inside PixInsight - Warren A. Keller

2018-10-26

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.

Making Beautiful Deep-Sky Images - Greg Parker 2016-10-26

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.

Choosing and Using a Refracting Telescope

- Neil English 2010-09-29

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.

The Constellation Observing Atlas - Grant Privett
2013-08-13

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 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.

Aplastic Anemia - Hermann Heimel 2012-12-06
Research on aplastic anaemia has until recently been limited to clinical description, morphology and epidemiology. New methods to culture haemopoietic cells, and advances in our knowledge of proliferation and differentiation in the haemopoietic cell system .opened a new area of scientific interest for this "prototype" of haemopoietic failure. In addition, bone marrow transplantation became not only a clinical method of treatment, but also a source of data useful for the discussion of pathophysiological models of aplastic anaemia. This situation prompted us to arrange an international con

ference on aplastic anaemia, with particular emphasis on its patho physiology and the rationals of the current therapeutic approaches. This conference was held at Schloss Reisenburg from July 20-22, 1978 with the participation of both experimental and clinical scientists active in this field or in related areas of research. The proceedings of the symposion reflect the present knowledge as well as the many new questions which arose from the discussions. The editors are gratefully indebted to the participants of this meeting, to Gerlinde Trogele and all the co-workers of the Uni versity of Ulm engaged in preparation of this symposium and of this volume, and last not least to all sponsors who provided the financial basis for this scientific event.

National Geographic Backyard Guide to the Night Sky, 2nd Edition - Andrew Fazekas
2019-03-19

Explore the star-studded cosmos with this fully updated, user-friendly skywatcher's guide, filled

with charts, graphics, photographs, and expert tips for viewing -- and understanding -- the wonders of space. Stargazing's too much fun to leave to astronomers. In these inviting pages, "Night Sky Guy" Andrew Fazekas takes an expert but easygoing approach that will delight would-be astronomers of all levels. Essential information, organized logically, brings the solar system, stars, and planets to life in your own backyard. Start with the easiest constellations and then "star-hop" across the night sky to find others nearby. Learn about the dark side of the moon, how to pick Mars out of a planetary lineup, and which kinds of stars twinkle in your favorite constellations. Hands-on tips and techniques for observing with the naked eye, binoculars, or a telescope help make the most out of sightings and astronomical phenomena such as eclipses and meteor showers. Photographs and graphics present key facts in an easy-to-understand format, explaining heavenly phenomena such as black holes, solar

flares, and supernovas. Revised to make skywatching even easier for the whole family, this indispensable guide shines light on the night sky--truly one of the greatest shows on Earth!
Telescope Optics - Harrie G. J. Rutten 1988

Choosing and Using a New CAT - Rod Mollise
2009-02-28

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

Space Telescopes - Neil English 2016-11-08
Space telescopes are among humankind's greatest scientific achievements of the last fifty years. This book describes the instruments themselves and what they were designed to discover about the Solar System and distant stars. Exactly how these telescopes were built and launched and the data they provided is explored. Only certain kinds of radiation can penetrate our planet's atmosphere, which limits what we can observe. But with space telescopes all this changed. We now have the means to "see" beyond Earth using ultraviolet, microwave, and infrared rays, X-rays and gamma rays. In this book we meet the pioneers and the telescopes that were built around their ideas.

This book looks at space telescopes not simply chronologically but also in order of the electromagnetic spectrum, making it possible to understand better why they were made.

The Night Sky Companion - Tammy Plotner
2009-02-28

T. Plotner, The Night Sky Companion, DOI 10.1007/978-0-387-79509-6_1, 1 Springer
Science&Business Media, LLC 2009
TheNightSkyCompanion

Welcome, fellow traveler to the stars! For the next year we will take a journey together across the night sky. In these pages you will find lunar features, planets, meteor showers, single and multiple stars, open and globular clusters, as well as distant galaxies. There will be astronomy history to explore, famous astronomers to meet, and science to learn. You'll find things here for those who enjoy stargazing with just their eyes, binoculars, or even the largest of telescopes! Although these observing tips are designed with all readers in mind, not everyone lives in the

same time zone—or the same hemisphere—and certainly no one has clear skies every night. But no matter where you live, or who you are, it is my hope that somewhere here you find something of interest to keep you looking up! LearningtheNightSky If you are new to astronomy, it might seem difficult to learn all those stars. Relax! It's much easier than you think. Just like moving to a new city, everything will seem unfamiliar at first, but with a little help from some maps, you'll soon be finding your way around like a pro. Once you become familiar with the constellations and how they appear to move across the night sky, the rest is easy. If you do not have maps of your own, try visiting your local library or one of many online sites thatcangeneratethem.

Theygiveobjectpositionsingreatdetail,andmostha
veakeyofGreekletters to help you understand
star hop instructions.

Telescopes for Kids - Vanessa Thomas
2021-04-27

Explore the mysteries of the night sky with the Junior Scientists series for kids ages 6 to 9 Scan the skies for 40 incredible sights with a book that shows budding scientists how to use a telescope for kids. You'll learn how to choose a telescope, set it up, and seek out the wonders of the Northern Hemisphere, from the Big Dipper to the Whirlpool Galaxy. Detailed visual guides-- Illustrations of each star, planet, and more make them easier to spot-- and once you can identify the major ones, you can use them to find others with any telescope for kids. Outer space school-- Discover what time of year it's easiest to see different objects in the sky, the life cycle of a star, how galaxies are cataloged, and more! Fun facts--Find out where the constellations get their names and why looking at the stars means you're actually looking back in time! See what's happening out in the cosmos with this guide to making the most of a telescope for kids.
One-Shot Color Astronomical Imaging - L. A. Kennedy 2012-04-05

This book shows amateur astronomers how to use one-shot CCD cameras, and how to get the best out of equipment that exposes all three color images at once. Because this book is specifically devoted to one-shot imaging, "One-Shot Color Astronomical Imaging" begins by looking at all the basics - what equipment will be needed, how color imaging is done, and most importantly, what specific steps need to be followed after the one-shot color images are taken. What is one-shot color imaging? Typically, astronomical cooled-chip CCD cameras record only one color at a time - rather like old-fashioned black & white cameras fitted with color filters. Three images are taken in sequence - in red, blue, and green light - and these are then merged by software in a PC to form a color image. Each of the three images must be taken separately through a suitable color filter, which means that the total exposure time for every object is more than tripled. When exposure times can run into tens of minutes or even hours

for each of the three colors, this can be a major drawback for the time-pressed amateur. "One-Shot Color Astronomical Imaging" describes the most cost-effective and time-efficient way for any amateur astronomer to begin to photograph the deep-sky.

Choosing and Using a Refracting Telescope - Neil English 2010-09-28

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.

Grab 'n' Go Astronomy - Neil English

2014-05-14

Like everyone else, most amateur astronomers live busy lives. After a long day or work or

looking after young children, the last thing you want as an observer is to have to lug out a large telescope and spend an hour getting it ready before it can be used. Maybe you are going on vacation somewhere in the countryside where there are sure to be dark skies, but you don't necessarily want astronomy to dominate the trip. Or suppose you are not quite committed to owning a large telescope, but curious enough to see what a smaller, portable setup can accomplish. These are times when a small "grab 'n' go" telescope, or even a pair of binoculars, is the ideal instrument. And this book can guide you in choosing and best utilizing that equipment. What makes a telescope fall into the "grab 'n' go" category? That's easy - speed of setting up, ease of use, and above all, portability. In Part I of this book, we survey the various types of equipment, including accessories and mounts, that are available, and what it is best for what kind of viewing. Part II is about using your grab 'n' go telescope to visit a wealth and wide

variety of objects. There are chapters on solar, lunar and planetary observing, as well as descriptions of many deep sky objects, including double and variable stars, planetary, emission and reflection nebulae, open and globular clusters and distant galaxies. This ambitious text is dedicated to those who love to or - because of their limited time - must observe the sky at a moment's notice, whether from the comfort of a backyard or while on business or vacation far from home. Everything you need to know is here. So get started!

Stargazing For Dummies - Steve Owens

2013-01-08

Reach for the stars Stargazing is the practice of observing the night sky and its contents - from constellations through to planets and galaxies. Stars and other night sky objects can be seen with the naked eye, or seen in greater numbers and in more detail with binoculars or a telescope. *Stargazing For Dummies* offers you the chance to explore the night sky, providing a

detailed guide to the main constellations and also offering advice on viewing other night sky objects such as planets and nebulae. It's a great introduction to a fun new hobby, and even provides a fun way to get the kids outside while doing something educational! Gives you an introduction to looking at the sky with binoculars or a telescope. Offers advice on photographing the night sky. Without needing to get your head around mind-bending theories, you can take part in some practical physics. If you're looking for easy-to-follow guidance on getting to know the night sky, *Stargazing For Dummies* has you covered.

The ShortTube 80 Telescope - Neil T. English
2019-09-14

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 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 Question and Answer Guide to Astronomy - Carol Christian 2017-03-23

Contains 250 questions and answers about astronomy, particular for the amateur astronomer.

50 Things to See with a Small Telescope (Southern Hemisphere Edition) - John A Read 2017-05-28

This special edition has been designed specifically for aspiring astronomers living south of the equator. This book explores the planets, stars, galaxies and nebulae observable from the southern hemisphere. Not only does this book illustrate how to observe, it also shows how each object appears through a small telescope!

Telescopes and Techniques - C. R. Kitchin 2012-10-21

“Telescopes and Techniques” has proved itself in its first edition, having become probably one of the most widely used astronomy texts, both for

numerate amateur astronomers and for astronomy and astrophysics undergraduates. The first and second editions of the book were widely used as set texts for introductory practical astronomy courses in many universities. This book guides the reader through the mathematics, physics and practical techniques needed to use telescopes (from small amateur models to the larger instruments installed in many colleges) and to observe objects in the sky. Mathematics to around Advanced Placement standard (US) or A level (UK) is assumed, although High School Diploma (US) or GCSE-level (UK) mathematics plus some basic trigonometry will suffice most of the time. Most of the physics and engineering involved is described fully and requires no prior knowledge or experience. This is a ‘how to’ book that provides the knowledge and background required to understand how and why telescopes work. Equipped with the techniques discussed in this book, the observer will be able to operate

with confidence his or her telescope and to optimize its performance for a particular purpose. In principle the observer could calculate his or her own predictions of planetary positions (ephemerides), but more realistically the observer will be able to understand the published data lists properly instead of just treating them as 'recipes.' When the observer has obtained measurements, he/she will be able to analyze them in a scientific manner and to understand the significance and meaning of the results. "Telescopes and Techniques, 3rd Edition" fills a niche at the start of an undergraduate astronomer's university studies, as shown by it having been widely adopted as a set textbook. This third edition is now needed to update its material with the many new observing developments and study areas that have come into prominence since it was published. The book concentrates on the knowledge needed to understand how small(ish) optical telescopes function, their main designs and how to set them

up, plus introducing the reader to the many ways in which objects in the sky change their positions and how they may be observed. Both visual and electronic imaging techniques are covered, together with an introduction to how data (measurements) should be processed and analyzed. A simple introduction to radio telescopes is also included. Brief coverage of the most advanced topics of photometry and spectroscopy are included, but mainly to enable the reader to see some of the developments possible from the basic observing techniques covered in the main parts of the book.

The Art of Astrophotography - Ian Morison
2017-02-02

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.

Star Ware - Philip S. Harrington 2002-10-16
This is the third edition of Phil Harrington's popular and comprehensive guide to astronomical equipment, written for both new astronomers as well as experienced amateurs. It includes numerous tips and tricks from other experienced astronomers. In this revised and

updated edition of *Star Ware*, the essential guide to buying astronomical equipment, award-winning astronomy writer Philip Harrington does the work for you, analyzing and exploring today's astronomy market and offering point-by-point comparisons of everything you need. Whether you're an experienced amateur astronomer or just getting st.

Stargazing Basics - Paul E. Kinzer 2015-07-09
A simple guide to get you started in astronomy, from observing the night sky to purchasing binoculars and telescopes.

Universe - DK 2020-09-08

Marvel at the wonders of the universe, from stars and planets to black holes and nebulae, in this exploration of our solar system and beyond. *Universe* opens with a look at astronomy and the history of the Universe, using 3D artworks to provide a comprehensive grounding in the fundamental concepts of astronomy, including the basic techniques of practical astronomy. The core of the book is a tour of the cosmos covering

the Solar System, the Milky Way, and galaxies beyond our own. Explanatory pages introduce different celestial phenomena, such as galaxies, and are followed by catalogs that profile the most interesting and important examples. A comprehensive star atlas completes the picture, with entries on each of the 88 constellations and a monthly sky guide showing the night sky as it appears throughout the year as viewed from both the northern and southern hemispheres. *The Basics of Light* - John O. E. Clark 2014-07-15

Though we take light for granted, the world's greatest scientists have long puzzled over its nature, properties, and behavior. Its incredible speed, mysterious frequency, relationship to color, form of travel, and uncanny ability to reflect, refract, diffract, and be absorbed altogether make light the ever-elusive quarry of science's greatest hunters of knowledge and understanding. This is the enthralling account of their investigations and discoveries, their conclusive insights and ongoing questions,

enhanced by full-color photographs and explanatory visual aids. If you thought you knew everything there is to know about light, think again and read on.

Astrophotography is Easy! - Gregory I. Redfern
2020-10-29

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 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.

Astronomy Explained - Gerald North

2012-12-06

Going beyond the superficial treatments found in "coffee-table" astronomy books, this book provides comprehensive treatment of astronomy in depth, offering comprehensible explanations of how and why things are as they are.

Comprehensive in its coverage, the book includes self-study questions at the end of each chapter.

[Choosing and Using a Dobsonian Telescope](#) -

Neil English 2011-07-23

In the 1960's, American amateur astronomer, John Dobson, designed a revolutionary kind of astronomical telescope featuring a lightweight

large-aperture reflecting system on a simple mounting, using the then-revolutionary material called teflon. The design combines simplicity and portability with large-aperture prowess. Thirty years later Dobsonians remain supreme for visually observing faint deep-sky objects and are one of the best-selling large telescopes in the USA and Europe. This popularity is reflected in the recent increase of companies now heavily marketing Dobsonians, in particular, Meade (the "Lightbridge" range), Orion USA (XT Intelliscope series), and Skywatcher (Skyliner and Flextube models). This book is the ultimate guide to buying and using commercial Dobsonians, both 'Econo' and 'Primo' models, with in-depth accounts for the various models (plus accessories) on the market and descriptions of the many innovations that amateurs have made to optimize their telescopes' performance.

A History of Optical Telescopes in Astronomy - Wilson Wall 2018-10-01

This book is uniquely about the relationship

between the optical telescope and astronomy as they developed together. It covers the time between the telescope's pivotal invention in the 1600's up to the modern era of space-based telescopes. Over the intervening centuries, there were huge improvements in the optical resolution of telescopes, along with changes in their positioning and nature of application that forever altered the course of astronomy. For a long time, the field was an exclusive club for self-motivated stargazers who could afford to build their own telescopes. Many of these leisure-time scholars left their mark by virtue of their meticulous observations and record keeping. Although they would now be considered amateurs, these figures and their contributions were pivotal and are covered in this book alongside professionals, for the first time giving a complete picture of the history of telescopic science.

A Guide to Skywatching - David H. Levy 2002
A introduction to the magic and mysteries of the

constellations, galaxies, and wonders of the night sky.

Real Astronomy with Small Telescopes - Michael Gainer 2007-06-04

This book demonstrates the use of an 80mm refractor and shows how it can be used as a real scientific instrument. The author is an experienced small telescope user and an astronomy educator, and he provides step-by-step instructions for numerous scientific activities. Users will find many activities and projects suitable for an 80mm refractor or 90mm reflector or Maksutov that have not been published elsewhere. Emphasis is on measurement and discovery activities rather than on casual observing. This book will provide amateur observers with the knowledge and skill that will help them make genuine contributions to the field of astronomy.

A Complete Manual of Amateur Astronomy - P. Clay Sherrod 2012-11-13

Concise, highly readable book discusses the

selection, set-up, and maintenance of a telescope; amateur studies of the sun; lunar topography and occultations; and more. 124 figures. 26 halftones. 37 tables.

Astronomy Hacks - Robert Bruce Thompson
2005

Astronomy Hacks begins the space exploration by getting you set up with the right equipment for observing and admiring the stars in an urban setting. Along for the trip are first rate tips for making most of observations. The hacks show you how to: Dark-Adapt Your Notebook Computer. Choose the Best Binocular. Clean Your Eyepieces and Lenses Safely. Upgrade Your Optical Finder. Photograph the Stars with Basic Equipment.

Classic Telescopes - Neil English 2012-08-30

Classic telescopes are of interest to amateur astronomers for a variety of reasons. There are the dedicated collectors, but there are also many amateurs who love the nostalgia they inspire. These telescopes "feel" different from any

contemporary telescope and perhaps have a unique ability to reconnect the owner to a bygone age of craftsmanship. This book takes a look at traditional telescopes built by the great instrument makers of the 18th and 19th centuries, particularly the dynastic telescope makers, including Dollond, Alvan Clark, Thomas Cooke & Sons, and Carl Zeiss. Also included are lesser luminaries such as John Brashear, John Calver, William Wray, Henry Fitz, and William Henry Mogey. 'Classic Telescopes' covers the key features of the telescopes designed by these manufacturers, and shows how a heady combination of market trends, instrument condition, and pedigree will dictate their prices at auction. 'Classic Telescopes' also shows the reader how to find real bargains! Interviews with top classic telescope collectors (and users) provide the best tips of prospecting for a genuine acquisition.

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provide the best tips of prospecting for a genuine acquisition.

Telescopes: how to Choose and Use Them -

Francis Joseph Terence Maloney 1968

A guide to the use of telescopes, telling how to choose and operate them, and what to look for when using them.

Grab 'n' Go Astronomy - Neil English 2014-05-15

Like everyone else, most amateur astronomers live busy lives. After a long day or work or looking after young children, the last thing you want as an observer is to have to lug out a large telescope and spend an hour getting it ready before it can be used. Maybe you are going on vacation somewhere in the countryside where there are sure to be dark skies, but you don't necessarily want astronomy to dominate the trip. Or suppose you are not quite committed to owning a large telescope, but curious enough to see what a smaller, portable setup can accomplish. These are times when a small "grab 'n' go" telescope, or even a pair of binoculars, is

the ideal instrument. And this book can guide you in choosing and best utilizing that equipment. What makes a telescope fall into the “grab ‘n’ go” category? That’s easy – speed of setting up, ease of use, and above all, portability. In Part I of this book, we survey the various types of equipment, including accessories and mounts, that are available, and what it is best for what kind of viewing. Part II is about using your grab ‘n’ go telescope to visit a wealth and wide variety of objects. There are chapters on solar, lunar and planetary observing, as well as descriptions of many deep sky objects, including double and variable stars, planetary, emission and reflection nebulae, open and globular clusters and distant galaxies. This ambitious text is dedicated to those who love to or – because of their limited time – must observe the sky at a moment’s notice, whether from the comfort of a backyard or while on business or vacation far from home. Everything you need to know is here. So get started!.

Chronicling the Golden Age of Astronomy - Neil English 2018-10-31

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.

Physics for Scientists and Engineers: Foundations and Connections, Extended Version with Modern - Debora M. Katz 2016-03-10

Cengage Learning is pleased to announce the publication of Debora Katz's ground-breaking calculus-based physics program, PHYSICS FOR SCIENTISTS AND ENGINEERS: FOUNDATIONS AND CONNECTIONS. The author's one-of-a-kind case study approach enables students to connect mathematical formalism and physics concepts in a modern, interactive way. By leveraging physics education research (PER) best practices and her extensive classroom experience, Debora Katz addresses the areas students struggle with the most: linking physics to the real world, overcoming common preconceptions, and connecting the concept being taught and the mathematical steps to follow. How Dr. Katz deals with these challenges—with case studies, student dialogues, and detailed two-column examples—distinguishes this text from any other on the market and will assist you in taking your students “beyond the quantitative.” Important Notice: Media content referenced within the product description or the product text may not

be available in the ebook version.