

Amateur Telescope Making In The Internet Age Finding Parts Getting Help And More The Patrick Moore Practical Astronomy Series

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Seeing in the Dark - Timothy Ferris 2012-12-18

In *Seeing in the Dark*, a poetic love letter to science and to the skies, Timothy Ferris invites us all to become stargazers. He recounts his own experiences as an enthralled lifelong amateur astronomer and reports from around the globe -- from England and Italy to the Florida Keys and the Chilean Andes -- on the revolution that's putting millions in touch with the night sky. In addition, Ferris offers an authoritative and engaging report on what's out there to be seen -- what Saturn, the Ring nebula, the Silver Coin galaxy, and the Virgo supercluster really are and how to find them. The appendix includes star charts, observing lists, and a guide on how to get involved in astronomy. Ferris takes us inside a major revolution sweeping astronomy, as lone amateur astronomers, in global networks linked by the Internet, make important discoveries that are the envy of the professionals. His ability to describe the wonders of the universe is simply magical, and his enthusiasm for his subject is irresistible.

The Hanson Guide to the Internet & Internet Databases - 2000

The Measurement of Starlight - J. B. Hearnshaw 1996-05-02

A well-illustrated historical survey of the science of measuring the brightness and colours of stars - for professional astronomers, amateur astronomers and historians of science.

CAP2005 Conference Proceedings -

[Coloring the Universe](#) - Travis Rector 2015-11-15

With a fleet of telescopes in space and giant observatories on the ground, professional astronomers produce hundreds of spectacular images of space every year. These colorful pictures have become infused into popular culture; we find them on billboards, in commercials, and on our computers. But they also invite questions: Is this what outer space really looks like? Are the colors real? How are these images made? "Coloring the Universe" uses accessible language to describe how these giant telescopes work, what scientists learn with them, and how they are used to make color images. Both informative and beautiful, this book is filled with brilliant images of deep space as well as an insider's perspective by the people who make them."

Astronomy Through the Telescope - Richard Learner 1981

The 500 year story of the instruments, the inventors, and their discoveries. --Dust jacket.

Asteroids and Dwarf Planets and How to Observe Them - Roger Dymock 2010-11-01

Dwarf planets (which were formerly called asteroids except for the planet Pluto), and the smaller Solar System bodies still called asteroids today, are making front page news, particularly those that are newly discovered and those that might present a hazard to life on Earth by impacting our planet. In this age of giant telescopes and space probes, these small Solar System bodies have advanced from being tiny points of light to bodies worthy of widespread study. This book describes the dwarf planets and asteroids themselves, their origins, orbits, and composition, and at how amateur astronomers can play a part in their detection, tracking, and imaging. The book is divided into two parts. Part I describes physical properties (including taxonomic types) of dwarf planets and asteroids, how they formed in the early life of the Solar System, and how they evolved to their present positions, groups, and families. It also covers the properties used to define these small Solar System bodies: magnitude, rotation rates (described by their light-curves), and orbital characteristics.

Part II opens with a description of the hardware and software an amateur or practical astronomer needs to observe and also to image asteroids. Then numerous observing techniques are covered in depth. Finally, there are lists of relevant amateur and professional organizations and how to submit your own observations to them.

Amateur Telescope Making in the Internet Age - Robert L. Clark 2010-10-14

Building an astronomical telescope offers the amateur astronomer an exciting challenge, with the possibility of ending up with a far bigger and better telescope than could have been afforded otherwise. In the past, the starting point has always been the grinding and polishing of at least the primary mirror, a difficult and immensely time-consuming process. But now that the Internet has brought us together in a global village, purchasing off-the-shelf goods such as parabolic mirrors, eyepieces, lenses, and telescope tubes, is possible. There are also a vast number of used mirrors and lenses out there, and it is now possible to track them down almost anywhere in the world. Online stores and auction houses have facilitated commerce regarding all sorts of useful optical components at a reasonable price. This is a book about making telescopes from available parts. It provides guidance on where to look and what to look for in selecting items useful for telescope making and explains how to assemble these components to produce an excellent instrument on a tight budget. At one time, many amateurs made their own telescopes from home-made parts. In today's rushed world, that has almost become a lost art. The Internet offers a wonderful alternative to either buying a pricey scope fully assembled or making your own from scratch.

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 Mogy. '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.

[Making Beautiful Deep-Sky Images](#) - Greg Parker 2007-09-20

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.

Astro-Imaging Projects for Amateur Astronomers - Jim Chung 2015-07-09

This is the must-have guide for all amateur astronomers who double as

makers, doers, 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.

Exploring the Night Sky with Binoculars - Patrick Moore 1996-02-23

On a clear, starry night, the jewelled beauty and unimaginable immensity of our Universe is awe-inspiring. Star-gazing with binoculars is rewarding and may begin a lifelong hobby! Patrick Moore has painstakingly researched *Exploring the Night Sky with Binoculars* to describe how to use binoculars for astronomical observation. He explains basic astronomy and the selection of binoculars, then discusses the stars, clusters, nebulae and galaxies that await the observer. The sky seen from northern and southern hemispheres is charted season by season, with detailed maps of all the constellations. The reader can also observe the Sun, Moon, planets, comets and meteors. With many beautiful illustrations, this handbook will be helpful and encouraging to casual observers and those cultivating a more serious interest. The enjoyment of amateur astronomy is now available to everybody.

The Design, Construction and Use of an Internet Accessible, Robotic Optical Telescope Initiative for Student Research Projects - Paul Luckas 2013

The aim of this project is to design, deploy and determine the potential effectiveness of a moderate cost robotic observatory for education and research projects. The use of robotic telescopes in education has been demonstrated in a number of recent high profile initiatives, such as the Bradford Telescope, and Faulkes Telescope projects. While there is anecdotal evidence to suggest that these initiatives increase student enthusiasm for science, the effectiveness of these comparatively large and expensive instruments in enabling students to easily participate in authentic research remains the subject of conjecture. At the same time, there has been a marked increase over the past few years, in the number of successful, comparatively low cost amateur observatories making valid contributions to science. Amateur astronomers have a long history of contribution to astronomical research, and recent innovations in off-the-shelf, robotic telescope hardware and software have increased this contribution even more so. Compared with the larger initiatives, the robotic telescope solutions implemented by advanced amateurs are easily replicated, and offer an interesting alternative for educational implementations. This research project will draw heavily on the recent advanced amateur experience as a model for the design and construction of a robotic observatory for outreach, engagement and valid research. The provision of a full life-cycle of support components is considered important in the successful delivery of any educational outreach initiative including one that involves access to a robotic telescope. The development, deployment and evaluation of teacher training as well as the development and provision of student activities form a significant component of this project. The age of the Internet is upon us. That the next generation of school students will continue to be impressed by taking pretty pictures of celestial objects with on-line telescopes is dubious; that those same students will be engaged by participating in research and discovery is likely. The key aim of this project is to demonstrate the potential to achieve this outcome using an effectively implemented, comparatively low cost Internet telescope solution and supporting initiatives.

Urban Astronomy - Denis Berthier 2003

Light pollution has spread so much in the last few decades that it often compromises our view of the stars. It is becoming more and more difficult to find an observing site with clear, dark skies away from light and industrial pollution. However, with patience, some simple equipment, and by choosing the right targets to observe, amateur astronomers can still

find observing from towns and cities a rewarding hobby. The result of thirty years of observing the night sky from within a city, Denis Berthier's practical guide will help amateur astronomers to enjoy their hobby without having to travel to distant sites, and without using complicated equipment or difficult techniques, enabling them to observe and photograph stars and planets as well as many other celestial objects.

See It with a Small Telescope - Will Kalif 2017-12-26

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

First Light and Beyond - D. A. Jenkins 2015-07-28

Amateur astronomers who have been disappointed by the results of an observing session can take comfort in the guidance of this book, which advises how to still gain useful experience in seemingly "failed" nights at the telescope. In a world with imperfect seeing conditions, incredible observing sessions are often mixed with less inspiring ones, discouraging the amateur observer. This book is designed to minimize subsequent disappointment for astronomers who encounter a few bad observing sessions, helping novice observers take something worthwhile away each and every time they go out under the night sky, regardless of the observations that were originally planned. Almost every observer remembers his first sight of ringed Saturn, hanging in the blackness of space. Practitioners agree that there is something special about visual observing. Real-time observations at the eyepiece can provide fleeting yet intense feelings that connect us with the universe in unique ways. But when expectations aren't met at the eyepiece, there are other ways to profit from the practice of astronomy. These rewards, though less showy, are well worth cultivating. This is a book that will help the reader see what constitutes a "successful" visual observing session. It explains the nature of the objects that the observer is seeing and advises how best to use their equipment. There are many hints and tips about how best to locate, recall, and record observations, including suggestions for trips to areas where there are dark skies and to public observatories. Amateur astronomy is a journey from the urban backyard all the way to dark rural skies, and with this guide the journey can be smooth.

Astronomy for Older Eyes - James L. Chen 2017-03-15

This book is for the aging amateur astronomy population, including newcomers to astronomy in their retirement and hobbyists who loved peering through a telescope as a child. Whether a novice or an experienced observer, the practice of astronomy differs over the years. This guide will extend the enjoyment of astronomy well into the Golden Years by addressing topics such as eye and overall health issues, recommendations on telescope equipment, and astronomy-related social activities especially suited for seniors. Many Baby-Boomers reaching retirement age are seeking new activities, and amateur astronomy is a perfect fit as a leisure time activity. Established backyard astronomers who began their love of astronomy in their youth, meanwhile, may face many physical and mental challenges in continuing their lifelong hobby as they age beyond their 55th birthdays. That perfect telescope purchased when they were thirty years old now suddenly at sixty years old feels like an immovable object in the living room. The 20/20 eyesight has given way to reading glasses or bifocals. Treasured eyepieces feel all wrong. Growing old is a natural process of life, but astronomy is timeless. With a little knowledge and some lifestyle adjustments, older astronomers can still enjoy backyard observing well into their seventies, eighties and even into their nineties.

Astronomy Now - 2008

Search Engine Positioning - Fredrick Marckini 2001

"Maximizing Search Engine Rankings" uniquely blends both marketing skills with technical code for web masters wanting to increase the traffic to a Web site. CD-ROM includes a gold trial version of WebPosition, search engine ranking templates, preoptimized top-ranking doorway page templates, and Yahoo letter request change in description and rankings.

Planets and Perception - William Sheehan 1988-11-01

Astronomy Book of the Year, Mercury Magazine (Astronomical Society of the Pacific) Do we really know what we see through a telescope? How does the ocular system construct planetary images, and how does the brain interpret them? Drawing on both astronomical and psychological

data, William Sheehan offers the first systematic analysis of the perceptual and cognitive factors that go into the initial structuring of a planetary image and its subsequent elaboration. Sheehan details the development of lunar and planetary astronomy, beginning with Galileo's study of the moon, and focuses particularly on the discover of "canals" on Mars. Through each episode he underscores a perceptual or psychological theme, such as the importance of differences in vision, tachistoscopic perceptual effects, the influence of expectation and suggestion on what one sees, and the social psychology of scientific discovery. *Planets and Perception* is a provocative book that will intrigue anyone who has ever looked through a telescope. In addition, it offers the psychologically oriented reader a case history in the processes of perception unlike any other in the literature.

Amateur Telescope Making - Stephen Tonkin 2012-12-06

This book provides an introduction to the design of a variety of telescopes, mounts, and drives suitable for the home-constructor. Projects include instruments that range from a shoestring budget to specialist devices that are not commercially available. The skill level of each project is indicated and advice is provided as to what is sensible to construct, given what is commercially available. Hints and tips are included, as well as listings of reputable mail order sources of materials and components.

Galileo's Planet - Thomas A Hockey 1998-01-01

Since the earliest times one of the brightest lights in the heavens has been that of Jupiter, mythical king of the gods and the largest planet in the solar system. It was only natural that peoples from the dawn of history would be interested in such a planet and, indeed, Jupiter was one of the first objects to be observed with the telescope. Even today Jupiter captures the public interest like no other planet: a vast gaseous world, home to violent storms (larger than the Earth) that have raged for centuries. *Galileo's Planet: Observing Jupiter before Photography* presents the history of humankind's quest to understand the giant planet in the era before photography, a time when the only way to observe the universe was with the human eye. The book provides a comprehensive and fascinating account of the people involved in this quest, their observations, and the results of their findings. Many of the planetary features studied in detail by today's space probes were once glimpsed by keen-eyed, amateur astronomers. These Earth-bound explorers made up for their modest instruments and viewing conditions with their patience, perseverance, and passion for the night sky. Their greatest challenge was the fifth planet from the Sun and the search for its imagined surface—a revelation of the "real Jupiter." In the process, these part-time observers redefined the meaning of the word "planet." The book recounts their story from the earliest times right up until the invention of the camera.

Celestial Objects for Modern Telescopes - Michael A. Covington 2002-09-26

Based on field notes made by the author during his own career as an amateur astronomer, this unique guide covers both the traditional and novel approaches to studying the night sky. In addition to the more standard techniques, it discusses the latest modern resources available to today's astronomer, such as personal computers, the Internet, and computerized telescopes. It includes practical advice on aspects such as site selection and weather; provides the reader with detailed instructions for observing the Sun, Moon, planets, and all types of deep-sky objects; and it introduces newer specialities such as satellite observing and the use of astronomical databases. The book concludes with detailed information about 200 stars, clusters, nebulae, and galaxies, suitable for viewing with modest-sized telescopes under suburban conditions. Written to complement *How to Use a Computerized Telescope*, this book will also appeal to astronomers with more traditional equipment.

The Guide to Amateur Astronomy - Jack Newton 1988-10-27

Introduces the constellations and astronomical observation, offers advice on astrophotography, and shows how to build a telescope or home observatory

Jupiter - Fran Bagenal 2006

This comprehensive volume authoritatively describes our understanding of the complex and fascinating jovian system. Written by a team of world experts, it brings together every aspect of the giant planetary system, from the deep interior of Jupiter to the distant tiny satellites and swarms of escaping gas and dust. Chapters present a synthesis of experimental data from the Voyager, Galileo and Cassini missions, from telescopes on the ground and in space, and from theoretical models on the different components that make up the Jupiter system. This book is a valuable introduction for graduate students and an indispensable resource for all researchers in planetary science.

High Resolution Astrophotography - Jean Dragesco 1995-07-20

This 1995 guide is packed with practical tips on how to obtain the highest resolution in your astrophotography.

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-Chrétiens 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.

Astrophotography for the Amateur - Michael A. Covington 1999-05-03

First published in 1999, this is an expanded and updated edition of the best-selling, standard handbook on astrophotography for amateurs.

Make Time for the Stars - Antony Cooke 2009-04-09

Many amateur astronomers are short of time. A full-time career usually takes up most waking hours, and often there simply isn't time for leisurely observing. Fortunately, modern technologies such as computer-controlled telescopes, GPS, north-seeking and level detection, have made telescope set-up much quicker. Today's imaging systems enable astronomers to take excellent astrophotographs without the hours-long exposures. *Make Time for the Stars* explains what to try on a tight schedule, and how to use today's equipment to get the most astronomy out of the least time. This book showcases a wide array of quickly performed astronomical projects, including various novel or new approaches to observing. There are also practical tips for maximizing time at the telescope, extracting optimal performance, quick and efficient set-up, and easily carried out optical maintenance. Significantly, the book features detailed information on alternative imaging techniques with simple and less time-consuming efforts.

New Trends in Astronomy Teaching - International Astronomical Union. Colloquium 1998-10

How do students learn astronomy? How can the World-Wide Web be used to teach? And how do planetariums help with educating the public? These are just some of the timely questions addressed in this stimulating review of new trends in the teaching of astronomy. Based on an international meeting hosted by the University of London and the Open University (IAU Colloquium 162), this volume presents articles by experts from around the world. The proceedings of the first IAU Colloquium (105), *The Teaching of Astronomy*, edited by Percy and Pasachoff, were first published in 1990 and soon became established as the definitive resource for astronomy teachers. Astronomy education has advanced enormously in the intervening 7 years, and this sequel will inspire and encourage teachers of astronomy at all levels and provide them with wealth of ideas and experience on which to build.

Astronomy with a Budget Telescope - Patrick Moore 2012-03-01

Astronomy with a Budget Telescope, 2nd Edition is a complete introduction to buying and using a low-cost amateur astronomical telescope. It provides essential hints and tips about what to look for when buying on a budget - the best are now excellent value, but they all lack an astronomer's advice about setting them up and using them. *Astronomy with a Budget Telescope* was first published in 2003, since then technology has moved on substantially. The main factors are first the availability of fairly inexpensive computer-controlled "go-to" telescopes which after setting up can automatically locate any celestial objects with reasonable accuracy. Second, digital cameras have now almost completely displaced "wet" film cameras, and some of them are particularly well-suited to astronomical use. Third, prices are down and quality is up! This new edition is revised and extended to include using a low-cost "go-to" telescope - there are various pitfalls to be avoided - and how this class of instrument can make amateur astronomy more accessible to those with limited time at their disposal. It also discusses the new breed of mid-range digital cameras that include powerful on-board processing and image enhancement software that used to be available only to people with advanced astronomical CCD cameras. Finally, there are detailed reviews and test reports on some of the budget telescopes that are available on Main Street and by mail order.

The Backyard Astronomer's Guide - Terence Dickinson 2021-09-15

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.

[Astronomy](#) - Dinah L. Moché 1978

Feel at home among the stars with this acclaimed astronomy self-teaching guide . . . "A lively, up-to-date account of the basic principles of astronomy and exciting current fields of research."-*Science Digest* "One of the best ways by which one can be introduced to the wonders of astronomy."-*The Strolling Astronomer* "Excellent . . . provides stimulating reading and actively involves the reader in astronomy."-*The Reflector* From stars, planets, and galaxies to the mysteries of black holes, the Big Bang, and the possibility of life on other planets, this new edition of *Astronomy: A Self-Teaching Guide* brings the fascinating night sky to life for every student and amateur stargazer. With a unique self-teaching format, *Astronomy* clearly explains the essentials covered in an introductory college-level course. Written by an award-winning author, this practical guide offers beginners an easy way to quickly grasp the basic principles of astronomy. To help you further appreciate the wonders of the cosmos, this book also includes: Star and Moon maps that identify objects in the sky Objectives, reviews, and self-tests that monitor your progress Simple activities that help you to test basic principles at your own pace Updated with the latest discoveries, new photographs, and references to the best astronomy Web sites, this newest edition of *Astronomy* imparts an extraordinary appreciation of the elegant beauty of the universe. Over 2 Million Wiley Self-Teaching Guides in Print

The Sky is Your Laboratory - Robert Buchheim 2007-07-31

For the experienced amateur astronomer who is wondering if there is something useful, valuable, and permanent that can be done with his or her observational skills, the answer is, "Yes, there is!" This is THE book for the amateur astronomer who is ready to take the next step in his or her astronomical journey. Till now there has been no text that points curious amateur astronomers to the research possibilities open to them. At the 2006 meeting of the Society for Astronomical Sciences, participants agreed that the lack of such a text was a serious gap in the astronomical book market. This book plugs that hole.

Getting the Measure of the Stars - W.A. Cooper 1989-01-01

Many years ago amateur astronomers made observations of equal quality to professionals and hence could participate in the intellectual challenge of advancing our knowledge of the universe. Throughout most of this century, however, the cost and complexity of telescopes and instruments have generally precluded their contribution. With the advent of home computers and relatively cheap electronics, the pendulum has swung back and the time is now ripe for amateurs to join their professional colleagues in the excitement of discovery. *Getting the Measure of the Stars* bridges the gap between dedicated amateurs and fully fledged professionals, both who seek to understand the nature and evolution of the stars. In terms accessible to the layperson, the first part explains how and why some stars have varying brightness, and what this variation can tell us about their physics and structure. The authors go on to discuss how to make brightness measurements, either by the unaided eye or by using photoelectric photometers. The book also discusses the accuracies of

various methods and the limitations on projects. The final section describes possible projects, the observations required, and what these would do to enhance our understanding of the stars and the solar system. Incorporating a great deal of theoretical and observational expertise, this book is a vital source of reference for those wishing to maximize their enjoyment from the use of small telescopes.

Turn Left at Orion - Guy Consolmagno 2000-10-19

A guidebook for beginning amateur astronomers, *Turn Left at Orion* provides all the information you need to observe the Moon, the planets and a whole host of celestial objects. Large format diagrams show these objects exactly as they appear in a small telescope and for each object there is information on the current state of our astronomical knowledge. Revised and updated, this new edition contains a chapter describing spectacular deep sky objects visible from the southern hemisphere, and tips on observing the upcoming transits of Venus. It also includes a discussion of Dobsonian telescopes, with hints on using personal computers and the internet as aids for planning an observing session. Unlike many guides to the night sky, this book is specifically written for observers using small telescopes. Clear and easy-to-use, this fascinating book will appeal to skywatchers of all ages and backgrounds. No previous knowledge of astronomy is needed.

Using the Meade ETX - Mike Weasner 2002-01-25

The Meade ETX range of telescopes is one of the most successful ever made. It is low-cost, has sold in its tens of thousands, and is available in almost every country. Here, ETX expert Mike Weasner reveals everything any amateur astronomer ever wanted to know about the telescope. First book dedicated entirely to the ETX. Written by an acknowledged world authority. Describes the "best" 100 objects to begin observing. Contains detailed hints and tips aimed at getting the best out of the ETX. Features imaging (photographic and digital) as well as visual observing.

[Astrophysical Techniques, Sixth Edition](#) - C.R. Kitchin 2013-11-18

Long used in undergraduate and introductory graduate courses, *Astrophysical Techniques, Sixth Edition* provides a comprehensive account of the instruments, detectors, and techniques employed in astronomy and astrophysics. Emphasizing the underlying unity of all astronomical observations, this popular text provides a coherent state-of-the-art account of the instruments and techniques used in current astronomy and astrophysics. As in earlier editions, the author aims to reduce the trend towards fragmentation of astronomical studies. The underlying unity of all of astronomical observation is emphasized by the layout of the book: the pattern of detection → imaging → ancillary techniques has been adopted so that one stage of an observation is encountered together with the similar stages required for all other information carriers. The book is written in a very accessible manner, and most of the mathematics is accessible to those who have attended a mathematics course in their final years at school. Nevertheless, the treatment of the topics in general is at a sufficiently high level to be of use to those professionals seeking technical information in areas of astronomy with which they might not be completely familiar.

[Star Maps](#) - Nick Kanas 2009-06-30

The beauty and awe generated by the celestial void captures our imagination and delights our aesthetic sense. Antiquarian map societies are prospering, and celestial maps are now viewed as a specialty of map collecting. This book traces the history of celestial cartography and relates this history to the changing ideas of man's place in the universe and to advances in map-making. Photographs from actual antiquarian celestial atlases and prints, many previously unpublished, enrich the text. The book describes the development and relationships between different sky maps and atlases as well as demonstrating contemporary cosmological ideas, constellation representations, and cartographic advances.

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

Are we alone in the Universe? Was there anything before the Big Bang? Are there other universes? What makes stars shine? Where does Earth's water come from? Why is the night sky dark? Was there ever life on Mars? How do telescopes work? This engaging guide book answers all these questions and hundreds more, making it a practical reference for anyone who has ever wondered what is out in the cosmos, where it all comes from, and how it all works. Richly illustrated in color throughout, it gives simple yet rigorous explanations in non-technical language, summarizing current astronomical knowledge, without overlooking the important underlying scientific principles. This second edition includes substantial new material throughout, including the latest findings from the New Horizons, Rosetta, and Dawn space missions, and images from professional telescopes such as the Hubble Space Telescope and the

