

## Best Autoguiders

This book offers a comprehensive introductory guide to "choosing and using" a series LXD55 or LXD75 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 LXD series users.

**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.

The most famous guide to the stars is now the most accessible! Generations of amateur astronomers have called it simply Norton's- the most famous star atlas in the world. Now in a beautifully redesigned, two-color landmark 20th edition, this combination star atlas and reference guide has no match in the field. First published in 1910, coinciding with the first of two appearances by Halley's Comet last century, Norton's owes much of its legendary success to its unique maps, arranged in slices or gores, each covering approximately one-fifth of the sky. Apart from being presented more accessibly than ever before, the text and tables have been revised and updated to account for the new and exciting developments in our observation of the cosmos. The star maps themselves were plotted using advanced computer techniques yielding outstanding accuracy and legibility. Every heavenly object visible to the naked eye is included-stars to magnitude 6, star clusters, and galaxies, as well as other celestial objects. Presented with an authority that has stood for generations, observation hints, technical explanations, and pointers to specialized information sources make this the only essential guide to the night sky. The updated and revised hardcover 20th edition also has new moon maps, clearer tables, new diagrams and a section on the latest computer driven telescopes-today's perfect home reference for curious minds from beginners to dedicated star gazers! What are people saying? . . . 'The unique and time-honored projection used in the Norton's star charts is particularly handy and has always been my favorite.' --Professor Owen Gingerich, Harvard-Smithsonian Center for Astrophysics 'Once in a blue moon a book appears to dramatically and forever change its subject; in short, the work becomes an indispensable resource for generations. Norton's Star Atlas is such a work.' -Leif J. Robinson, Editor Emeritus, Sky and Telescope 'Ian Ridpath is one of the most dedicated and prolific writers on astronomy. His works all have clarity and authority, and he is ideally suited to infuse new life into a classic.' -Martin Rees, Astronomer Royal, University of Cambridge, author of Our Final Hour

Star charts, step-by-step projects, photos, and more: “The Total Skywatcher’s Manual is a fun book, but more importantly, it’s a useful book.” —Sky & Telescope With fully illustrated star charts, gorgeous astrophotography, and step-by-step project instruction, this is the only guide you need to navigate the night (and day) sky. Learn about the phases of the moon, how to conduct your own deep-sky observations, how the universe is expanding, our search for life on other planets, meteors vs. meteorites, sunspots and solar flares, best eclipse-viewing techniques—everything you need to know to appreciate the wonder of our universe. The Total Skywatcher’s Manual will help stargazers, comet-spotters, and planet-seekers: Choose the best telescope Identify constellations and objects in the night sky Search for extraterrestrial phenomena Plan star parties Capture beautiful space imagery and much more For well over a century, the Astronomical Society of the Pacific has provided resources, tools, and information to astronomy enthusiasts, including amateur astronomers, families, and science educators. Now they draw on their wide-ranging expertise to guide you through the skies.

The 100 Best Astrophotography Targets

How to Use the Star Book TEN and the Original Star Book

Replicating the Work of the Great Observers

Practical Astrophotography

Instrumentation and Research Programmes for Small Telescopes

A User’s Guide to the Meade LXD55 and LXD75 Telescopes

Provides novice to accomplished amateur astronomers with a firm grounding in the basics and successful use of digital astrophotography. Provides examples of the best images, and gives readers hints and tips about how to get the best out of this extraordinary technology. Experts in CCD astronomy from North America and Europe have contributed to this book, illustrating their help and advice with many beautiful colour images – the book is in full color throughout. Techniques range from using simple webcams to highly technical aspects such as supernovae patrolling. Computer processing, stacking and image-enhancement are detailed, along with many hints and tips from the experts.

Michael Swanson's online discussions with literally thousands of NexStar owners made it clear that there was a desperate need for a book such as this – one that provides a complete, detailed guide to buying, using and maintaining NexStar telescopes. Although this book is highly comprehensive, it is suitable for beginners – there is a chapter on "Astronomy Basics" – and experts alike. Celestron's NexStar telescopes were introduced in 1999, beginning with their first computer controlled "go to" model, a 5-inch. More models appeared in quick succession, and Celestron's new range made it one of the two dominant manufacturers of affordable "go to" telescopes.

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.

Any amateur astronomer who is interested in astrophotography, particularly if just getting started, needs to know what objects are best for imaging in each month of the year. These are not necessarily the same objects that are the most spectacular or intriguing visually. The camera reveals different things and has different requirements. What objects in the sky tonight are large enough, bright enough, and high enough to be photographed? This book reveals, for each month of the year, the choicest celestial treasures within the reach of a commercial CCD camera. Helpful hints and advice on framing, exposures, and filters are included. Each deep sky object is explained in beautiful detail, so that observers will gain a richer understanding of these astronomical objects. This is not a book that dwells on the technology of CCD, Webcam, wet, or other types of astrophotography. Neither is it a book about in-depth computer processing of the images (although this topic is included). Detailed discussions of these topics can be found in other publications. This book focuses on what northern latitude objects to image at any given time of the year to get the most spectacular results.

The Amateur Astronomer's Guide to Choosing, Buying, and Using Telescopes and Accessories

More Small Astronomical Observatories

The NexStar User's Guide

The Deep-Sky Observer's Year

Making a Success of Astronomical Observing

Star Ware

Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It will also be a useful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging. This books is not about making beautiful astronomical images; it is about recording astronomical images that are scientifically rigorous and from which accurate data can be extracted. This book is unique in that it gives readers the skills necessary for obtaining excellent images for scientific purposes in a concise and procedurally oriented manner. This not only gets the reader used to a disciplined approach to imaging to maximize quality, but also to maximize the success (and minimize the frustration!) inherent in the pursuit of astrophotography. The knowledge and skills imparted to the reader of this handbook also provide an excellent basis for " beautiful picture " astrophotography! There is a wealth of information in this book – a distillation of ideas and data presented by a diverse set of sources and based on the most recent techniques, equipment, and data available to the amateur astronomer. There are also numerous practical exercises. Scientific Astrophotography is perfect for any amateur astronomer who wants to go beyond just astrophotography and actually contribute to the science of astronomy.

This book provides a thorough introduction to and exploration of deep sky astrophotography for the digital photographer. With over 280 images, graphs, and tables, this introductory book uses a progressive and practical style to teach readers how to image the night sky using existing, affordable equipment. The book opens with a brief astronomy primer, followed by chapters that build progressively to explain the challenges, offer solutions, and provide invaluable information on equipment choice through image capture, calibration, and processing in affordable software. The book ' s focus ranges from how to image sweeping vistas and star trails using only a camera body, lens and tripod, to more advanced methods suitable for imaging galaxies, clusters, nebulae, and stars. Other features of the book include: Real-world assignments showing how and when to use certain tools and how to overcome challenges and setbacks Practical construction projects Evaluations of the most recent developments in affordable hardware and software Exploration on how sensor performance and light pollution relate to image quality and exposure planning Ground-breaking practical chapters on lucky imaging and choosing and using the latest CMOS cameras Written in an accessible, easy to follow format, this comprehensive guide equips readers with all the necessary skills to progress from photographer to astrophotographer.

Astronomical photographs contain an enormous amount of information. This presents extremely interesting problems when one wishes to produce digitised sky atlases, to archive the digitised material, to develop sophisticated devices to do the digitising, and to create software to procecc the vast amounts of data. All these activities are necessary to be able to do astronomy. One such activity is the important, large-scale optical identification of objects which also emit radiation at other wavelenghts. Other activities of the past decade include a multiplicity of surveys that have been made on galaxies and clusters of galaxies. This book treats, in five sections, the existing and future surveys, their digitisation and their impact on astronomy. It is a reference for people in the field and for those who wish to engage in using or producing sky surveys.

Proceedings of SPIE present the original research papers presented at SPIE conferences and other high-quality conferences in the broad-ranging fields of optics and photonics. These books provide prompt access to the latest innovations in research and technology in their respective fields. Proceedings of SPIE are among the most cited references in patent literature.

Digital Astrophotography: The State of the Art

A Guide to Observing Deep-Sky Objects Throughout the Year

Explore the Sky: 298 Tips, Tricks, & Skills

The Total Skywatcher's Manual

First Light and Beyond

The Kast Double Spectograph

***This book covers the use and development of software for astronomy. It describes the control systems used to point the telescope and operate its cameras and spectrographs, as well as the web-based tools used to plan those observations. In addition, the book also covers the analysis and archiving of astronomical data once it has been acquired. Readers will learn about existing software tools and packages, develop their own software tools, and analyze real data sets.***

***Digital SLR cameras have made it easier than ever before to photograph the night sky. Whether you're a beginner, nature photographer, or serious astronomer, this is the definitive handbook to capturing the heavens. Starting with simple projects for beginners such as cameras on tripods, it then moves onto more advanced projects including telescope photography and methods of astronomical research. With 80% revised and updated material, this new edition covers nightscapes, eclipses, using cameras with sky trackers and telescopes, and tools for identifying celestial objects and investigating them scientifically. Image processing is discussed in detail, with worked examples from three popular software packages - Nebulosity, Maxim DL, and PixlInsight. Rather than taking a recipe-book approach, Covington explains how your equipment works as well as offering advice on many practical considerations, such as choice of set-up and the testing of lenses, making this a comprehensive guide for anyone involved in astrophotography.***

***The Astrophotography Manual, Second Edition is for photographers ready to move beyond standard SLR cameras and editing software to create beautiful images of nebulas, 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 PixlInsight Ground-breaking practical chapters on hardware and software as well as alternative astrophotography pursuits***

***Computers and Astronomy Perhaps every generation of astronomers believes that their telescopes are the best that have ever been. They are surely all correct! The great leap of our time is that computer-designed and machined parts have led to more accurately made com- nents that give the astronomer ever better views. The manual skills of the craftsman mirror grinder have been transformed into the new-age skills of the programmer and the machine maker. (The new products did not end the work of craftsman te- scope makers, though. Many highly skilled amateur/professional opticians cont- ued to produce good-quality mirrors that are still seen today. ) Amateur-priced telescopes are now capable of highly accurate tracking and computer control that were once only the province of professionals. This has greatly increased the p- sibilities of serious astronomy projects for which tailor-made software has been developed. Add a CCD camera to these improved telescopes (see Chap. 3), and you bring a whole new dimension to your astronomy (see Fig. 1. 1). Look Before You Leap! But first, a word of caution. Unless you are already familiar with astronomy and basic telescopes, it is not wise to start spending large amounts of money on a we- featured telescope. Such an instrument might otherwise be subsequently abandoned due to a perceived overcomplexity coupled with a waning interest.***

***Digitised Optical Sky Surveys***

***Advanced Software and Control for Astronomy***

***IAU Colloquium 136***

***Proceedings of the Conference on 'Digitised Optical Sky Surveys', Held in Edinburgh, Scotland, 18–21 June 1991***

***Astrophotography with Affordable Equipment and Software***

***Lick Observatory Bulletins***

***State-of-the-art and future technology in stellar photometry in a comprehensive and timely review.***

Arditti's approachable work covers the all the details of design, siting and construction - once a basic type has been decided upon. It is written in a way that is equally applicable to the USA and UK (where there are slightly different building regulations) and deals with matters that are basic to building and commissioning any amateur observatory. Uniquely, David Arditti also considers the aesthetics of amateur observatories - fitting them in with family and neighbors, and maybe disguising them as more common garden buildings if necessary. Every amateur astronomer who wants a purpose-built observatory (and let's face it, which one of them doesn't?) will find this book invaluable.

Amateur astronomy has changed beyond recognition in less than two decades. The reason is, of course, technology. Affordable high-quality telescopes, computer-controlled 'go to' mountings, autoguiders, CCD cameras, video, and (as always) computers and the Internet, are just a few of the advances that have revolutionized astronomy for the twenty-first century. Martin Mobberley first looks at the basics before going into an in-depth study of what's available commercially. He then moves on to the revolutionary possibilities that are open to amateurs, from imaging, through spectroscopy and photometry, to patrolling for near-earth objects - the search for comets and asteroids that may come close to, or even hit, the earth. The New Amateur Astronomer is a road map of the new astronomy, equally suitable for newcomers who want an introduction, or old hands who need to keep abreast of innovations. From the reviews: "This is one of several dozen books in Patrick Moore's "Practical Astronomy" series. Amid this large family, Mobberley finds his niche: the beginning high-tech amateur. The book's first half discusses equipment: computer-driven telescopes, CCD cameras, imaging processing software, etc. This market is changing every bit as rapidly as the computer world, so these details will be current for only a year or two. The rest of the book offers an overview of scientific projects that serious amateurs are carrying out these days. Throughout, basic formulas and technical terms are provided as needed, without formal derivations. An appendix with useful references and Web sites is also included. Readers will need more than this book if they are considering a plunge into high-tech amateur astronomy, but it certainly will whet their appetites. Mobberley's most valuable advice will save the book's owner many times its cover price: buy a quality telescope from a reputable dealer and install it in a simple shelter so it can be used with as little set-up time as possible. A poor purchase choice and the hassle of setting up are why most fancy telescopes gather dust in their owners' dens. Summing Up: Highly recommended. General readers; lower- and upper-division undergraduates."( T. D. Oswalt, CHOICE, March 2005)

"Library catalogue in 1911" (31 p.) appended to v. 4.

Handbook of Practical Astronomy

Encyclopedia of Astronomy & Astrophysics

Norton's Star Atlas and Reference Handbook, Epoch 2000.0

Instrument Design and Performance for Optical/infrared Ground-based Telescopes

Software Systems for Astronomy

Astronomy Now

***Along with its companion book, The Observational Amateur Astronomer, this is a comprehensive guide for every amateur astronomer who wants to do more than just stargaze. Each chapter has been written by a well-known professional or amateur astronomer, chosen for their specialist knowledge. Topics range from buying a telescope (or making your own), via electronic equipment and accessories, to more technical aspects such as spectroscopy and astrophotography. Patrick Moore has edited the book overall into his easy, comprehensible style - known to millions of television viewers.***

***In a unique collaboration, Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics. This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2,750 articles, plus sophisticated search and retrieval functionality and links to the primary literature. The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists. This first class resource is an essential source of information for undergraduates, graduate students, researchers and seasoned professionals, as well as for committed amateurs, librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work.***

***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.**

**Deep-sky observing is easily the most popular field for amateur astronomers. The big problem faced by non-professional observers is what to look at - what is visible at a particular time of year. The Deep-Sky Observers Year is a month-by-month guide to the best objects to view. Objects are given a "star rating" according to how difficult they are to observe or image with a particular size of telescope. The book includes many images produced by amateur astronomers, as well as photographs from NASA, ESA, and ESO. There is background information about the objects, along with lots of useful tips, hints, and resources.**

**How to Select and Use the LX200 and Other High-End Models**

**One-Shot Color Astronomical Imaging**

**The Lick TV Autoguide**

**Astronomical Discoveries You Can Make, Too!**

**The Caldwell Objects and How to Observe Them**

**Capturing the Universe**

When Mike Inglis, who consults for Springer, first asked me to write a Caldwell book in their "and How to Observe Them" series I admit I did need some time to think the suggestion over. I am a fan of Patrick's Caldwell catalog as are most of the amateur astronomers I know, but could a new book be justified when the massive, comprehensive, and wrist-spraining Caldwell tome by Stephen O'Meara covers the subject fully anyway? That other book was researched and written over a 5-year period in the pre-9/11 world from 1996 to 2001, and its 484 pages of descriptive text and background data are a joy to peruse, as are Stephen's impressive sketches. OK, the book is far too heavy for the binding and after a few trips outside half the pages in my copy fell out, but apart from that it is an excellent book and surely impossible to improve upon, or even equal, especially in a smaller format book with only half the pages available; at least, that was my initial impression when I mulled over writing another Caldwell book. However, I changed my mind, because a number of events of astronomical significance have occurred in the last 10 years. First and foremost backyard imaging of deep sky objects, especially color imaging, has come on in leaps and bounds in the twenty-first century.

For all but the simplest star-trail pictures, photographing the night sky involves machinery to track the stars, and the task becomes even more complicated when photographing very small or very faint objects that require high magnification or very long exposure times. Astrophotography for Amateurs presents equipment and techniques, features practical hints and tips from the experts, including coverage of traditional "wet" photography, CCD imaging, and computerized image enhancement. There are sections on photographing different classes of astronomical object from the moon to faint nebulae, as well as a detailed look at the equipment needed.

This volume is the proceedings of IAU Symposium No. 118 on "Instrumentation and Research Programmes for Small Telescopes", where small telescopes were defined as those ground-based instruments with apertures less than 1.5m. The scientific goal of the symposium was to emphasise research programmes which were more suited to smaller telescopes, on which frequent regular observations can be made. A wide variety of topics on instrumentation, photometry, spectroscopy and polarimetry of objects in the solar system to extragalactic systems were discussed. Each of the four scientific days of the symposium comprised a number of invited review papers, contributed oral papers and discussion sessions devoted purely to the large number (~4) of poster papers. An introductory paper on the research potential of small telescopes sets the scene for the symposium. The proceedings have then been divided into three sections. Section I: Telescopes and instrumentation; Section II: Photometric research programmes; Section III: Spectroscopic research programmes. The diversity of topics within each of these sections indicated the extent to which small telescopes have (and can) contribute greatly to astronomical research. Dr J.A. Graham's summary of the symposium, which illustrates the opportunities available with small telescopes, concludes these proceedings. As in all symposia, the importance of the discussion following each paper was realised. The discussion was recorded on tape (and wherever possible on questions and answer sheets), transcribed and then edited.

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.

How Amateurs Can Generate and Use Professional Imaging Data

The Messenger

A Practical and Scientific Approach to Deep Sky Imaging

In Less Time, For Less Money!

24-26 May 2006, Orlando, Florida, USA

25-28 August, 2002, Waikoloa, Hawaii, USA

You too can follow in the steps of the great astronomers such as Hipparchus, Galileo, Kepler and Hubble, who all contributed so much to our modern understanding of the cosmos. This book gives the student or amateur astronomer the following tools to replicate some of these seminal observations from their own homes: With your own eyes: Use your own observations and measurements to discover and confirm the phenomena of the seasons, the analemma and the equation of time, the logic behind celestial coordinates, and even the precession of the equinoxes. With a consumer-grade digital camera: Record the changing brightness of an eclipsing binary star and show that a pulsating star changes color as it brightens and dims. Add an inexpensive diffraction grating to your camera and see the variety of spectral features in the stars, and demonstrate that the Sun's spectrum is similar to one particular type of stellar spectrum. With a backyard telescope: Add a CCD imager and you can measure the scale of the Solar System and the distance to a nearby star. You could even measure the distance to another galaxy and observe the cosmological redshift of the expanding universe. Astronomical Discoveries You Can Make, Too! doesn't just tell you about the development of astronomy; it shows you how to discover for yourself the essential features of the universe. 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.

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.

The 100 Best Astrophotography Targets A Monthly Guide for CCD Imaging with Amateur Telescopes Springer Science & Business Media

Stellar Photometry: Current Techniques and Future Developments

Setting-Up a Small Observatory: From Concept to Construction

A Photographer's Guide to Deep-Sky Imaging

Digital SLR Astrophotography

Proceedings of the 118th Symposium of the International Astronomical Union, Held in Christchurch, New Zealand, 2-6 December 1985

Making Beautiful Deep-Sky Images

*This entertaining text details the methods and techniques employed by non-professional astronomers from all over the world, providing a wonderful resource for anyone wishing to build a small observatory of almost any kind. Its a fun read, too. Almost every amateur astronomer dreams of having a fixed observatory - this provides ideas and constructional details. Ideas from around the world. Written for a broad audience, including non-astronomers.*

*The Compendium of Practical Astronomy is unique. The practical astronomer, whether student, novice or accomplished amateur, will find this handbook the most comprehensive, up-to-date and detailed single guide to the subject available. It is based on Roth's celebrated German language handbook for amateur astronomers, which first appeared over 40 years ago.*

*Basics for Beginners*

*Astronomy Hacks*

*A Monthly Guide for CCD Imaging with Amateur Telescopes*

*The New Amateur Astronomer*

*The Astrophotography Manual*