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Human Vision and The Night Sky  
Using Sequence Generator Pro and Friends  
Practical Astrophotography  
The Astrophotography Manual  
Telescope Making  
Popular Photography  
The NexStar User ' s Guide  
The Art of Astrophotography  
Making Beautiful Deep-Sky Images  
Digital SLR Astrophotography  
Beginners Guide to Night Photography  
Handbook of Practical Astronomy  
Astronomy  
The 100 Best Astrophotography Targets  
Revista Mexicana de Astronomía Y Astrofísica  
Ground-based Telescopes  
Astrophotography is Easy!  
International Halley Watch  
Amateur Observers' Manual for Scientific Comet Studies  
A Complete Manual of Amateur Astronomy  
Shoot the Moon  
Instrumentation for Ground-Based Optical Astronomy  
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The Cambridge Deep-Sky Album  
Small Astronomical Observatories  
Literature 1988, Part 2  
French Silk  
Astrophotography for the Amateur  
The Strolling Astronomer  
The Art of Astrophotography  
Astronomical Optics and Elasticity Theory  
Hunting and Imaging Comets  
Literature 1987, Part 2  
An Amateur's Guide to Observing and Imaging the Heavens  
Digital Astrophotography: The State of the Art  
Compendium of Practical Astronomy  
The New Amateur Astronomer  
Capturing the Universe  
Cambridge Astronomy Guide  
Astronomical Equipment for Amateurs  
The Modern Amateur Astronomer

An Amateur's Guide to Observing and Imaging the Heavens is a highly comprehensive guidebook that bridges the gap between the beginners' and hobbyists' books and the many specialised and subject-specific texts for more advanced amateur astronomers. Written by an experienced astronomer and educator, the book is a one-stop reference providing extensive information and advice about observing and imaging equipment, with detailed examples showing how best to use them. In addition to providing in-depth knowledge about every type of astronomical telescope and highlighting their strengths and weaknesses, two chapters offer advice on making visual observations of the Sun, Moon, planets, stars and galaxies. All types of modern astronomical imaging are covered, with step-by-step details given on the use of DSLRs and web-cams for solar, lunar and planetary imaging and the use of DSLRs and cooled CCD cameras for deep sky imaging.

Capturing the serene beauty of planets, stars, and celestial bodies is both fine art and scientific discovery. Fascinating, challenging, and extremely rewarding, astrophotography is a pursuit that is greatly enhanced by gaining access to the type of detailed instruction this book offers, with charts, tables, over (number of TK) images, and real-life troubleshooting advice in detailed case studies. The Astrophotography Manual is for those astrophotographers who wish to swiftly move beyond using standard SLR cameras and Photoshop, and who are ready to create beautiful images of nebulae, galaxies, clusters, and the solar system. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from equipment choice and set-up, through image acquisition, image calibration, and processing. Along the way it explains how sensor performance and light pollution relate to image quality and exposure planning. This book will satisfy the technical and practical reader and uses case studies to illustrate the entire process, using a range of equipment (including tablets and smartphones), exploring deep sky and planetary objects, and utilizing a variety of software, including Maxim, Nebulosity, Photoshop, RegiStax and PixInsight.

In Small Astronomical Observatories, Patrick Moore has collected descriptions of amateur and small professional observatories currently in use in Europe and America, showing how many astronomers have built their own observatory, often with effective and sometimes extraordinary improvisations to reduce the cost. There is a photograph of each, along with details of its construction and a foreword written by Patrick Moore. In addition to providing a fascinating study for its own sake, Small Astronomical Observatories offers a unique fund of ideas and practical details for anyone who wants to build an amateur or small professional observatory.

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.

In The Art of Astrophotography, astronomer and Astronomy Now 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

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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.

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.

For many astronomers, the holy grail of observation is to discover a comet, not least because comets always bear the name of their discoverer! *Hunting and Imaging Comets* was written for comet hunters and digital imagers who want to discover, rediscover, monitor, and make pictures of comets using astronomical CCD cameras and DSLRs. The old days of the purely visual comet hunter are pretty much over, but this is not to say that amateurs have lost interest in finding comets. The book also covers the discovery of comet fragments in the SOHO image data, CCD monitoring of older comets prone to violent outbursts, the imaging of new NEOs (Near Earth Objects) that have quite often been revealed as comets - not asteroids - by amateur astronomers, and the finding of recent comets impacting Jupiter.

This book brings the challenge and fun back to a hobby that goes stale far too quickly for many budding amateur astronomers. The book begins with teaching astronomers to use their most important astronomy tool, their eyes. It discusses how to select the right telescope, and subsequent chapters take the readers on a tour of the solar system as they have never viewed it before through their own eyes. Each chapter includes a series of observing challenges that will entertain and push the reader to continually higher levels of achievement.

From the reviews: "Astronomy and Astrophysics Abstracts has appeared in semi-annual volumes since 1969 and it has already become one of the fundamental publications in the fields of astronomy, astrophysics and neighbouring sciences. It is the most important English-language abstracting journal in the mentioned branches. The abstracts are classified under more than a hundred subject categories, thus permitting a quick survey of the whole extended material. The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences. As such it represents a necessary ingredient of any astronomical library all over the world." *Space Science Reviews*#1 "Dividing the whole field plus related subjects into 108 categories, each work is numbered and most are accompanied by brief abstracts. Fairly comprehensive cross-referencing links relevant papers to more than one category, and exhaustive author and subject indices are to be found at the back, making the catalogues easy to use. The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes." *The Observatory Magazine*#2

Dedicated to modern lunar imaging, this is an in-depth and illustrated guide to capturing impressive images of our nearest neighbour.

Historically, the discovery of tools, or evidence that tools have been used, has been taken as proof of human activity; certainly the invention and spread of new tools has been a critical marker of human progress and has increased our ability to observe, measure, and understand the physical world. In astronomy the tools are telescopes and the optical and electronic instruments that support them. The use of the telescope by Galileo marked the beginning of a new and productive way to study and understand the universe in which we live. The effects of this new tool on what we can see, and how we see ourselves, are well known. However, after almost four centuries of developing ever more sensitive and subtle instruments as tools for astronomy, it might have been expected that only a few minor improvements would remain to be made, or that possibly the law of diminishing returns would have taken effect. On the contrary, the new instruments and ideas for new instruments described in this book make it clear that the rate of progress has not diminished, and that this subject is still as exciting and productive as ever. *Instrumentation for Ground-Based Optical Astronomy* was chosen as the theme for the Ninth Santa Cruz Summer Workshop in Astronomy and Astrophysics.

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.

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

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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.

First published in 1999, this much expanded and updated edition of the best-selling handbook *Astrophotography for the Amateur* provides a complete guide to taking pictures of stars, galaxies, the Moon, the Sun, comets, meteors and eclipses, using equipment and materials readily available to the hobbyist. In this new edition, the book has been completely revised and now includes new chapters on computer image processing and CCD imaging; expanded advice on choosing cameras and telescopes; completely updated information about the films; a much larger bibliography; and hundreds of new photographs (in colour, and black and white) demonstrating the latest equipment and techniques. *Astrophotography for the Amateur* has become the standard handbook for all amateur astronomers. This expanded and updated edition provides an ideal introduction for beginners and a complete handbook for advanced amateurs. It will also appeal to photography enthusiasts who can discover how to take spectacular images with only modest equipment.

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.

Photographs of galaxies, nebulae, and star clusters are accompanied by advice on observing objects in the night sky with a telescope

In the last few years, digital SLR cameras have taken the astrophotography world by storm. It is now easier to photograph the stars than ever before! They are compact and portable, flexible to adapt with different lenses and for telescope use, and above all DSLR cameras are easy and enjoyable to use. In this concise guide, experienced astrophotography expert Michael Covington outlines the simple, enduring basics that will enable you to get started, and help you get the most from your equipment. He covers a wide selection of equipment, simple and advanced projects, technical considerations and image processing techniques. Unlike other astrophotography books, this one focuses specifically on DSLR cameras, not astronomical CCDs, non-DSLR digital cameras, or film. This guide is ideal for astrophotographers who wish to develop their skills using DSLR cameras and as a friendly introduction to amateur astronomers or photographers curious about photographing the night sky.

*Astronomy and Astrophysics Abstracts* aims to present a comprehensive documentation of the literature concerning all aspects of astronomy, astrophysics, and their border fields. It is devoted to the recording, summarizing, and indexing of the relevant publications throughout the world. *Astronomy and Astrophysics Abstracts* is prepared by a special department of the *Astronomisches Rechen-Institut* under the auspices of the *International Astronomical Union*. Volume 44 records literature published in 1987 and received before February 15, 1988. Some older documents which we received late and which are not surveyed in earlier volumes are included too. We acknowledge with thanks contributions of our colleagues all over the world. We also express our gratitude to all organizations, observatories, and publishers which provide us with complimentary copies of their publications. Dr. Siegfried Böhme retired from his duties as co-editor of *Astronomy and Astrophysics Abstracts* on December 31, 1987. Since 1950 he participated in the bibliographic work of the institute. He served as a reviewer for the *Astronomischer Jahresbericht* and became one of the editors of *Astronomy and Astrophysics Abstracts* in 1969. After his retirement in 1975 he took care of, particularly, the Russian literature on a voluntary basis for 12 years. It is a pleasure to thank Siegfried Böhme for his valuable contributions. Starting with Volume 33, all the recording, correction, and data processing work was done by means of computers. The recording was done by our technical staff members Ms. Helga Ballmann, Ms. Christiane Jehn, Ms. Monika Kohl, Ms.

Do you struggle to take great photos of fireworks or the stars and night sky? Written by Multi Award Winning Australian Photographer, Trainer and Best Selling Author Steve Rutherford. This book, *The Beginners Guide to Night Photography* is one of the best selling "Beginners Guide to Photography" book series and is an easy to understand practical guide to night photography. In the latest book "*The Beginners Guide to Night Photography*" another book in the best selling "Beginners Guide to Photography" book series. You'll discover the secrets the pro's use to get amazing photos of star trails, planets and even deep space! Here is what is covered in this complete beginners guide to *Photographing the Night Sky* by Award Winning Professional Photographer and Best Selling Author Steve Rutherford. The SECRET TECHNIQUES pro photographers use every day FREE Access to BONUS VIDEO TRAINING to learn photo editing like a pro Beginners buying guide to telescopes and how to use them with cameras. Dozens of astrophotography techniques, tips and tricks. Equipment needed to capture star field planetary and celestial objects. Specialised telescopic equipment studies. All the resources to find processing software for astrophotography. Over 200 pages of hands on easy to follow instruction The equipment that takes your shots from boring to amazing How to save time and money using the right photography tools How to turn your photography passion and creativity into a BIG \$ income You will discover the many secrets that I, and other pro photographers, use to capture stunning award winning photos, with sharper focus, more color, more

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detail and less time wasting, trying every setting to "hope for a good shot". Set out into an easy to follow, page by page guide, join me indoors, outdoors and at night on all aspects of photography and how to take control of your DSLR Camera, and master striking photos, with every shoot. The Beginners Guide to Night Photography, is clearly written, easy-to-understand guide will be an indispensable resource whenever you pick up the camera for your next night photography shoot. You'll also get FREE access to Video Training at - <https://www.photocheats.com>. Also FREE Access to One Shot Magazine at - <http://www.oneshotmagazine.com>. It is packed full of tips and tricks to improve your photography. Just follow the links to both Photo Cheats and One Shot Magazine in the book or Like us over at <https://www.facebook.com/OneShotMagazine> Please also come back and leave a review we would love to know what you thought of this book. Don't forget to check out the other books in the "Beginners Guide to Photography" book series. Written with all levels in mind, there is instruction for beginners, as well as many advanced techniques and tips. I have also included "live website links" throughout, as well as easy to find "quick tip" sections. The "Beginners Guide to Photography" book series breaks techniques down into specific categories so you can perfect these techniques. Please see the other books in the series for more in depth tutorials on a large range of photography styles. Please also come back and leave a review we would love to know what you thought of this book. Don't forget to check out the other books in the "The Beginners Guide to Photography" best selling photography book series. \*\*\*\*\* 5 STAR REVIEWS for this book series so far \*\*\*\*\* "Explanatory, easy descriptions involved material" "Loved it has helped me in numerous ways. Have used it as a reference constantly. One of my photos has gone viral since using the hints and tips in the book. Small adjustments make huge differences." - Mike Roche. "Has absolutely everything" "Do not miss out on this book. As the title says it has absolutely everything and I particularly like the boxes with advice to shoot particular subjects. It doesn't matter whether you are just starting out or experienced with a camera, it has something for everyone. Highly recommended!" - Paul B "Well worth the money" "Great book that starts from the very basics, explains everything to do with modern cameras, their use, settings and techniques under different settings and circumstances." - Qball "A great read" "Getting back into photography after a 6 yr break - born and raised on a film SLR, this book helped me remember things and to better adapt to a digital SLR - whether you're novice or experienced, you will get a lot out of this book." - Brian I love this book and hope to capture few good images as a result of this." - Jatinkumar.

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 book 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.

When she becomes a murder suspect, a New Orleans beauty and lingerie tycoon must share her most deeply buried secrets with a disturbingly handsome district attorney in order to clear her name. Like the city of New Orleans itself, Claire Laurent is a vibrant beauty laced with mystery. As the founder of French Silk, a fabulous lingerie company, she has fought hard to achieve worldwide success. Then a TV evangelist attacks French Silk's erotic sleepwear as sinful. And when he is killed, Claire becomes the prime suspect. District Attorney Robert Cassidy knows Claire is damning herself with lie after lie about the murder, even as he feels her drawing him into her world and her very soul. But neither Cassidy nor her protests of innocence can save Claire unless she reveals a shocking truth -- one she has sworn to take to the grave . . .

This guide provides useful insight for first-time telescope buyers as well as experienced amateurs. It examines the advantages and disadvantages of different types of telescopes, mountings, and accessories-ranging from refractors and reflectors to computer controlled drives and CCD cameras. The author also covers observation techniques, photographic equipment, astronomical software, as well as equipment care and maintenance.

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.

Astronomical Optics and Elasticity Theory provides a very thorough and comprehensive account of what is known in this field. After an extensive introduction to optics and elasticity, the book discusses variable curvature and multimode deformable mirrors, as well as, in depth, active optics, its theory and applications. Further, optical design utilizing the Schmidt concept and various types of Schmidt correctors, as well as the elasticity theory of thin plates and shells are elaborated upon. Several active optics methods are developed for obtaining aberration

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corrected diffraction gratings. Further, a weakly conical shell theory of elasticity is elaborated for the aspherization of grazing incidence telescope mirrors. The very didactic and fairly easy-to-read presentation of the topic will enable PhD students and young researchers to actively participate in challenging astronomical optics and instrumentation projects.

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.

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.

It is a pleasure to present this work, which has been well received in German-speaking countries through four editions, to the English-speaking reader. We feel that this is a unique publication in that it contains valuable material that cannot easily-if at all-be found elsewhere. We are grateful to the authors for reading through the English version of the text, and for responding promptly (for the most part) to our queries. Several authors have supplied us, on their own initiative or at our suggestion, with revised and updated manuscripts and with supplementary English references. We have striven to achieve a translation of Handbuch for Sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original German text. Where appropriate, we have inserted footnotes to clarify material which may have a different meaning and/or application in English-speaking countries from that in Germany. When the first English edition of this work, *Astronomy: A Handbook* (translated by the late A. Beer), appeared in 1975, it contained 21 chapters. This new edition is over twice the length and contains 28 authored chapters in three volumes. At Springer's request, we have devised a new title, *Compendium of Practical Astronomy*, to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages.

This guide is specifically aimed at those who are using—or want to use—Sequence Generator Pro. SGP is a “ session management ” software package that controls the telescope, mount, camera, and ancillary equipment to target and secure images during a night of imaging astronomical objects. The book begins with a special tutorial to get up and running with SGP. With a comprehensive reference section, it takes the user in detail through the various aspects of user and equipment profiles, equipment definitions, the sequencer, and other essential elements of SGP. Finally, it focuses on how to get the most out of the ancillary programs—target databases, autoguiders, plate solvers, planetarium software, and other applications. Oftentimes, technical guides can end up being far denser than the processes they intend to explain. Many of the insights provided by SGP expert Alex McConahay are beyond what can be found in the official program documentation. In this book, the reader will find in-depth, yet straightforward practical advice on how to automate nightly astroimaging sessions with Sequence Generator Pro.

' (the book) conveys the enthusiasm and excitement of the authors even at the potential of an astronomical discovery, a lot of advice is useful, and it would certainly encourage and help anyone to have a go at astronomical photography.' *Astronomy Now*

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.

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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.

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.

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)

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