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The Astrograph

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.

Modern Astronomy

Telescope Making

Here is a comprehensive guide for every amateur astronomer who hopes to do more than just star-gaze. If you already own an astronomical telescope and want to know how to use it to the best effect, or if you are thinking about buying one and are wondering where to start, this this is the book for you.

Astronomy

The Deep-Sky Observer's Year

Kitt Peak National Observatory Facilities Book

Introduces beginners to amateur astronomy, describes what to look for and when--beginning with the solar system and moving on to the stars--and offers suggestions for better observations.

Using Sequence Generator Pro and Friends

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.

Automation in Optical Astrophysics

Literature 1988

Bulletin of the Astronomical Society of India

Star and Sky

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.

Infrared Detectors and Instrumentation for Astronomy

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.

The New CCD Astronomy

Instrumentation for Ground-Based Optical Astronomy

Examines a variety of observatories around the world; 25 examples.

Star & Sky

Small Astronomical Observatories

This book is written for beginning to intermediate CCD astrophotographers. It is a complete reference on every aspect of CCD imaging, from selecting equipment to advanced processing techniques.

The Modern Amateur Astronomer

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 Astrophotography Manual

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.

Ground-based Telescopes

The New Amateur Astronomer

Describes what it is like to witness a total eclipse, and shows how to photograph the sun, moon, stars, and planets

The Stargazer's Bible

The Strolling Astronomer

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

The Hidden Sun

From Ground-based to Space-borne Sub-mm Astronomy

The Art of Astrophotography

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, autoguider, 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)

Publications of the Royal Observatory, Edinburgh

In The Art of Astrophotography, astronomer and Popular Astronomy columnist Ian Morison provides the essential foundations of how to produce beautiful astronomical images. Every type of astroimaging is covered, from images of the Moon and planets, to the constellations, star clusters and nebulae within our Milky Way Galaxy and the faint light of distant galaxies. He achieves this through a series of worked examples and short project walk-throughs, detailing the equipment needed - starting with just a DSLR (digital single lens reflex) camera and tripod, and increasing in complexity as the book progresses - followed by the way to best capture the images and then how, step by step, these may be

processed and enhanced to provide results that can rival those seen in astronomical magazines and books. Whether you are just getting into astrophotography or are already deeply involved, Morison's advice will help you capture and create enticing astronomical images.

Proceedings

Compendium of Practical Astronomy

Ground-based Instrumentation for Astronomy

International Halley Watch

Advice on observing the night sky is offered, as well as on how to use star maps, starfinders, binoculars, and telescopes with stands, mounts, drives, and cameras

An Amateur's Guide to Observing and Imaging the Heavens

Astrophotography

Solid State Sensor Arrays and CCD Cameras

Deep Sky

Physics Briefs

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 PixInsight Ground-breaking practical chapters on hardware and software as well as alternative astrophotography pursuits

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