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Jena Review Information Bulletin So You Want a Meade LX Telescope! Annual Review of Astronomy and Astrophysics The Life Story of an Infrared Telescope Observing Comets A User's Guide to the Meade LXD55 and LXD75 Telescopes HIRES, a High Resolution Echelle Spectrometer for the Keck Ten-meter Telescope Scientific and Technical Aerospace Reports Making Beautiful Deep-Sky Images The Deep-sky Imaging Primer Using Sequence Generator Pro and Friends Literature 1987, Part 1 Astrophotography Instrument Design and Performance for Optical/infrared Ground-based Telescopes Astronomical Data Analysis Software and Systems Transactions of the International Astronomical Union Selected Papers on Adaptive Optics and Speckle Imaging The Astrophotography Manual South African Astronomical Observatory Report for the Year Ending... Orion Instrumentation in Astronomy The NexStar User’s Guide Stellar Photometry: Current Techniques and Future Developments The NexStar Evolution and SkyPortal User's Guide Astronomy in the Near-Infrared - Observing Strategies and Data Reduction Techniques Astronomical Equipment for Amateurs Thirty Years of Astronomical Discovery with UKIRT Astronomy and Astrophysics Monthly Index The New CCD Astronomy The Astrophotography Manual Digital SLR Astrophotography Infinity Rising Astronomy Now Report of the Astronomer Royal for Scotland Report of the Astronomer Royal for Scotland for the Year Ending ... Making Beautiful Deep-Sky Images Annual Report of the Astronomer Royal for Scotland Catchers of the Light Astronomy and Astrophysics Abstracts

State-of-the-art and future technology in stellar photometry in a comprehensive and timely review. Since comet Shoemaker-Levy collided with the planet Jupiter with stupendous force in 1994 there has been an upsurge of amateur interest in comets. Most comets are first discovered by amateur astronomers because so there are many amateurs looking for them, and techniques and instruments have improved dramatically in the past few years. This comprehensive book (with an accompanying CD-ROM) is at once a "primer" for comet hunters and a text for advanced amateurs and will thus appeal to a wide audience of amateur astronomers This book serves as a comprehensive guide for using a Nexstar Evolution mount with WiFi SkyPortal control, walking the reader through the process for aligning and operating the system from a tablet or smartphone. The next generation Go-To mount from Celestron, this is compatible not only with the Nextstar Evolution but also with older mounts. It is the ideal resource for anyone who owns, or is thinking of owning, a Nexstar Evolution telescope, or adapting their existing Celestron mount. Pros and cons of the system are thoroughly covered with a critical depth that addresses any possible question by users. Beginning with a brief history of Go-To telescopes and the genesis of this still new technology, the author covers every aspect of the newly expanding capability in observing. This includes the associated Sky Portal smartphone and tablet application, the transition from the original Nexstar GoTo system to the new SkyPortal system, the use of the Sky Portal application with its Sky Safari 4 basic software and Celestron WiFi adaptations, and discussions on the use of SkyPortal application using the Celestron adapter on older Celestron mounts. Comments and recommendations for equipment enable the reader to successfully use and appreciate the new WiFi capability without becoming overwhelmed. Extensively illustrated using actual screenshots from the program interface, this is the only guide to the Nextstar SkyPortal an observer will need. The General Assemblies of the

International Astronomical Union are landmarks in the life of the world-wide astronomical community, as they review, at triennial intervals, the progress made in this scientific field, promulgate the most spect acular astronomical achievements, formulate scientific programmes for the years to come and, last but not least, deal with the administration and finances of the IAU. The Reports on Astronomy 1976, published as Transactions XVIA (in 3 volumes) before the XVlth General Assembly, are a synopsis of the work done in astronomy from 1973 to 1975. The volume "Highlights of Astronomy , as presented at the XVlth General As sembly of the IAU in Grenoble, 1976" includes some selected scientific topics, and will appear in the first half of 1977. Apart from the Invited Discourses and the Proceedings of the seven Joint Discussions, the Highlights volume No.4 con tairsthe proceedings of two Joint Commissions Meetings. Near-infrared astronomy has become one of the most rapidly developing branches in modern astrophysics. Innovative observing techniques, near-infrared detectors with quantum efficiencies in excess of 90%, highly specialised instruments as well as advanced data reduction techniques have allowed major breakthroughs in various areas like exoplanets, star-forming regions, the supermassive black hole in the Galactic center, and the high-redshift Universe. In this book, the reader will be introduced to the basic concepts of how to prepare near-infrared observations with maximized scientific return. Equal weight is given to all aspects of the data reduction for both - imaging and spectroscopy. Information is also provided on the state of the art instrumentation available and planned, on detector technology or the physics of the atmosphere, all of which influence the preparation and execution of observations and data reduction techniques. The beginner but also the expert will find a lot of information in compact form which is otherwise widely dispersed across the internet or other sources. 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 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 #1 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. Today's photographic equipment allows amateurs to take pictures of the stars that far surpass images taken just a few decades ago by even the largest observatories-and this book will teach you how. Author and world-renowned astrophotographer Thierry Legault teaches the art and techniques of astrophotography: from simple camera-on-tripod night-scene imaging of constellations, star trails, eclipses, artificial satellites, and polar auroras to more intensive astrophotography using specialized equipment for lunar,

planetary, solar, and deep-sky imaging. Legault shares advice on equipment and guides you through techniques to capture and process your images to achieve spectacular results. Astrophotography provides the most thorough treatment of the topic available. This large-format, richly illustrated book is intended for all sky enthusiasts-newcomers and veterans alike. Learn how to: Select the most useful equipment: cameras, adapters, filters, focal reducers/extenders, field correctors, and guide telescopes Set up your camera (digital, video, or CCD) and your lens or telescope for optimal results Plan your observing sessions Mount the camera on your telescope and focus it for razor-sharp images Polar-align your equatorial mount and improve tracking for pin-point star images Make celestial time-lapse videos Calculate the shooting parameters: focal length and ratio, field of view, exposure time, etc. Combine multiples exposures to reveal faint galaxies, nebulae details, elusive planetary structures, and tiny lunar craters Adjust contrast, brightness, light curves, and colors Postprocess your images to fix defects such as vignetting, dust shadows, hot pixels, uneven background, and noise Identify problems with your images and improve your results The Orion Telescope Observer's Guide highlights over sixty interesting objects for budding amateur astronomers to find and observe in a small telescope. We'll help you explore objects such as star clusters, multiple stars, nebulae, and even the Andromeda Galaxy! Helpful maps of each target object are included, as are examples of what the object will look like in a typical finderscope, and depictions of the view you'll see in a telescope eyepiece. The author also includes a realistic description of every object based upon his own notes written over years of observations. Written with the beginner in mind, the Orion Telescope Observer's Guide also includes vital tips and tricks to help you get the most out of the rewarding hobby of amateur astronomy. If you're new to stargazing with a small telescope, this book is your introduction to the stars! 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. 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. 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. The Astrophotography Manual is for those photographers who aspire to move beyond using standard SLR cameras and editing software, and who are ready to create beautiful images of nebulas, galaxies, clusters, and the solar system. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing and using equipment through image capture, calibration, and processing. This combination of technical background information and the hands-on approach brings the science down to earth with a practical method to plan for success. Features include: Over 400 images, graphs, and tables to illustrate these concepts A wide range of hardware to be used, including smartphones, tablets, and the latest mount technologies How to utilize a variety of leading software such as Maxim DL, Nebulosity, Sequence Generator Pro, Photoshop, and PixInsight Case studies showing how and when to use certain tools and overcoming technical challenges How sensor performance and light pollution relate to image quality and exposure planning 'Catchers of the Light' is a

History of Astrophotography. It tells the true stories of the 46 pioneers who did most to master the art of celestial photography, as it was known during its early days; and whose efforts have made it possible for us to see the many magnificent pictures of the Universe featured in books, magazines and on the internet. In its TWO magnificent volumes is contained an unbelievable collection of tales of adventure, adversity and ultimate triumph and tells the uplifting stories of this small band of ordinary men and women, who did such extraordinary things; overcoming obstacles as diverse as war, poverty, cholera, death, very unfriendly cannibal natives and even exploding donkeys. It has been written with a no specific audience in mind - it is a book for anybody in fact - astronomers, photographers, historians, genealogists, art dealers, students, artists, doctors, farmers, builders, teachers & many more. If you like to read about the lives of special people - those who never give up - no matter what - and who succeed in achieving the seemingly impossible - then this is the book for you. This book of 1600 or so pages, with 1800 or more photographs/illustrations and over 2000 references/notes - represents the FIRST fully detailed and professionally researched book on the subject; and tells of the incredible lives of the pioneers of Astrophotography, each with their own incredible story to tell - they were the ‘Catchers of the Light’. Catchers of the Light is divided into ten Parts (I-X), each covering a specific aspect of the subject- I: Origins of Astrophotography; II: Lunar Astrophotography; III: Solar Astrophotography; IV: Solar System Astrophography; V: Deep Space Astrophotography; VI: Photographic Astronomical Spectroscopy; VII: Photographic Sky Surveys; VIII: Astrographs; IX: Modern Digital Age; X: Appendices. The following men and women are to be found in the pages of the book; who are the 'Catchers of the Light': Louis Jacques Mande Daguerre (1787-1851); Joseph Nicephore Niepce (1765-1833); Frederick Scott Archer (1814-1857); Richard Leach Maddox (1816-1902); John William Draper (1811-1882); Maurice

Loewy (1833-1907); Pierre Henri Puiseux (1855-1928); William Henry Pickering (1858-1938); Armand Hippolyte Leon Fizeau (1819-1896); Jean Bernard Leon Foucault (1819-1868); Warren De La Rue (1815-1889); Pierre Jules Cesar Janssen (1824-1907); John Adams Whipple (1822-1891); William Usherwood (1821-1915); Pierre Paul Henry (1848-1905); Mathieu Prosper Henry (1849-1903); Maximillian Franz Joseph Cornelius Wolf (1863-1932); William Cranch Bond (1789-1859); George Phillips Bond (1825 -1865); Benjamin Apthorp Gould (1824-1896); Henry Draper (1837-1882); Isaac Roberts (1829-1904); William Edward Wilson (1851-1908); James Edward Keeler (1857-1900); Edward Emerson Barnard (1857-1923); Williamina Paton Strevens Fleming (1857-1911); Lewis Morris Rutherfurd (1816-1892); Father Pietro Angelo Secchi (1818-1878); William Huggins (1824-1910); Margaret Lindsay Murray (1848-1915); Edward Charles Pickering (1846 - 1919); Hermann Vogel (1841-1907); Wilhelm Oswald Lohse (1845-1915); Julius Scheiner (1858-1913); Edwin Powell Hubble (1889-1953); Milton Lasell Humason (1891-1972); Amedee Ernest Barthelemy Mouchez (1821-1892); David Gill (1843-1914); William Parsons (1800-1867); Andrew Ainslie Common (1841-1903); George Willis Ritchey (1864 1945); Henri Chretien (1879-1956); Bernhard Voldemar Schmidt (1879-1935); . Eugen von Gothard (1857-1909); Alfred Rordame (1862-1931); Marcel De Kerolyr (1873-1969). If you have seen or read ‘Longitude’ the story of John Harrison, the country carpenter who built the first clock that could accurately tell the time at sea, and who also made ‘Del Boy’ a ‘millionaire’, then you will love the ‘Catchers of the Light’. These are the proceedings of an international meeting hosted by the Royal Observatory, Edinburgh, to commemorate the 30th anniversary of the dedication of the UKIRT, the United Kingdom InfraRed Telescope. The volume comprises 31 professional level papers. The first part of the book has 10 thorough reviews of the conception, design and build of the telescope, as well as accounts of some its key

instruments such as IRCAM (the common-user infrared camera), CGS4 (the fourth Cooled Grating Spectrometer) and the Wide Field Camera. The second part of the book comprises 14 reviews of scientific achievements during its twenty years of visitor mode operations. The final part of the book is a series of 7 reviews of the results from the multiple surveys being done as part of UKIDSS (UKIRT Infrared Deep Sky Survey). The authors are all experts in their respective fields, for example instrument scientists, operations staff and leading astronomers. 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. 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. Written by one of the astronomers who 'lived the dream' of working there this book is a restrospectively expanded diary featuring the 'birth and long life' of what was a truely innovative telescope. Based on input received from people involved in its planning, building, operation, and many scientists who observed with it, the author tells this success story of The United Kingdom

Infrared Telescope (UKIRT). Conceived in the mid 1970's as a cheap and cheerful light-bucket for the newly emerging field of infrared astronomy it has re-invented itself once a decade to remain at the forefront of infrared astronomy for more than 30 years. Even in 2012 / 2013, when ironically it faced almost certain closure, it remained one of the most scientifically productive telescopes in the world. Everybody, including amateur and professional astronomers, interested in real astronomy projects will enjoy reading that story and meet (again) the persons who lived it. 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. The book that taught thousands of people about astrophotography has been completely revised and updated in this second edition. It covers everything you need to know to capture stunning images of deep-sky objects with a DSLR or CCD camera: The fundamental concepts of imaging and their impact on the final image How to pick a telescope and camera How to get set up and take the images Where and when to find the best objects in the night sky How to process images using Adobe Photoshop(R) and PixInsight(R) Start-to-finish examples of image processing Full-color with over 300 illustrations. Astronomy and Astrophysics Abstracts aims to present a comprehensive documen tation 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 43 records literature published in 1987 and

received before August 15, 1987. 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 organiza tions, observatories, and publishers which provide us with complimentary copies of their publications. 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. Beate Gobel, Ms. Monika Kohl, Ms. Sylvia Matyssek, Ms. Doris Schmitz-Braunstein, Ms. Utta-Barbara Stegemann. Mr. Jochen Heidt and Mr. Kristopher Polzine supported our task by careful proof reading. It is a pleasure to thank them all for their encouragement. Heidelberg, October 1987 The Editors Contents Introduction . . . . . 1 Concordance Relation: PHYS-AAA 3 Abbreviations 5 Periodicals, Proceedings, Books, Activities 001 Periodicals . . . . . 10 002 Bibliographical Publications, Documentation, Catalogues, Data Bases 50 003 Books ..... . SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics. 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. 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. 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