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SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics. 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 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 organizations, 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

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003 Books ..... . 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. 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 components 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 telescope makers, though. Many highly skilled amateur/professional opticians continued 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 possibilities 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 well-featured telescope. Such an instrument might otherwise be subsequently abandoned due to a perceived overcomplexity coupled with a waning interest. State-of-the-art and future technology in stellar photometry in a comprehensive and timely review. 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 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. Astronomy and Astrophysics Abstracts, which has appeared in semi-annual volumes since 1969, is devoted to the recording, summarizing and indexing of astronomical publications throughout the world. It is prepared under the auspices of the International Astronomical Union (according to a resolution adopted at the 14th General Assembly in 1970). Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics. Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months. This time interval is near to that achieved by monthly abstracting journals, compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user. Volume 13 contains literature published in 1975 and received before August 15, 1975; some older literature which was received late and which is not recorded in earlier volumes is also included. We acknowledge with thanks contributions to this volume by Dr. J. Bouska, who surveyed journals and publications in the Czech language and supplied us with abstracts in English, and by the Commonwealth Scientific and Industrial Research Organization (C.S.I.R.O.), Sydney, for providing titles and abstracts of papers on radio astronomy. We want to acknowledge valuable contributions to this volume by Zentralstelle für Atomkernenergie-Dokumentation, Leopoldshafen, which supported our abstracting service by sending us retrospective literature searches. The Astrophotography Manual, Second Edition is for photographers ready to move beyond standard SLR cameras and editing software to create beautiful images of nebulae, 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 '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 Astrophotography; 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 Nicéphore Niépce (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); Maximilian 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 Stevens Fleming (1857-1911); Lewis Morris Rutherford (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'. 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 Comets have inspired wonder, excitement and even fear ever since they were first observed. But they are important members of the solar system, that contain material from early in the life of the system, held in deep-freeze. This makes them key in our understanding of the formation and evolution of many Solar System bodies. Recent ground- and space-based observations have changed much in our understanding of comets. Comets, and How to Observe Them gives a summary of our current knowledge and describes how amateur astronomers can contribute to the body of scientific knowledge of comets. This book contains many practical examples of how to construct comet light-curves, measure how fast a comet's coma expands, and determine the rotation period of the nucleus. All these examples are illustrated with drawings and photographs. Because of their unpredictable nature comets are always interesting and sometime spectacular objects to observe and image. The second part of the book therefore takes the reader through the key observing techniques that can be used with commercially available modern observing equipment, from basic observations to more scientific measurements. 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. 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. Recent research in wide-field astronomy is reported in these papers from an August 2000 conference, encompassing theoretical developments as well as innovations in observational instrumentation. Advances in wide-field cosmology and extragalactic astronomy, wide-field galactic astronomy, wide-field planetary astronomy, databases and access, new telescopes and instruments, and new surveys are detailed. There is also material on the wide-field photographic legacy. Some specific topics are the Chandra Multi-wavelength Project, cosmology of the space-luminosity distribution of virialized halos, galaxy formation at high redshifts, the faint sky variability survey, saving astronomical treasures, and searching for NEOs using wide-field telescopes. Annotation copyrighted by Book News Inc., Portland, OR. 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 retrospectively expanded diary featuring the 'birth and long life' of what was a truly 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 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. 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. 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. 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 spectacular 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 XVIIA (in 3 volumes) before the XVIIth General Assembly, are a synopsis of the work done in astronomy from 1973 to 1975. The volume "Highlights of Astronomy", as presented at the XVIIth General Assembly 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 contains the 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.

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