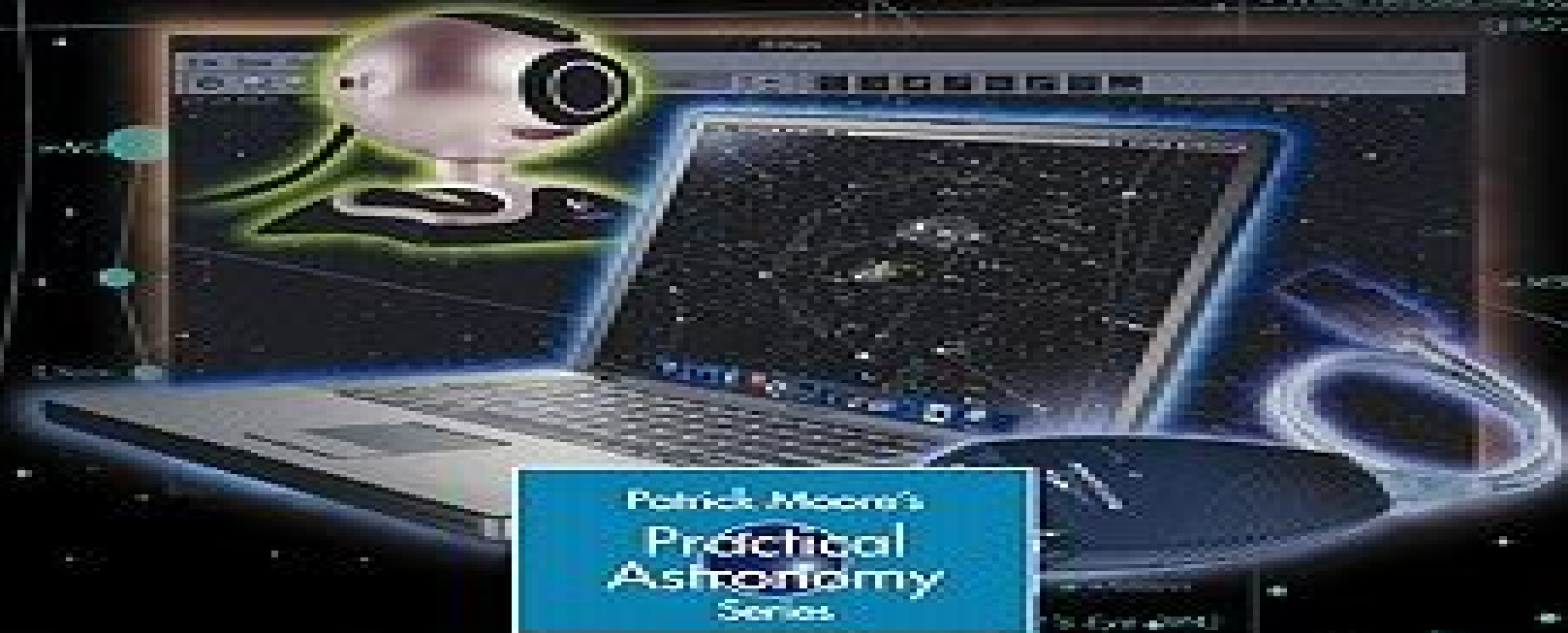


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Astronomy with a Home Computer Neale Monks, 2005-03-03 Here is a one volume guide to just about everything computer related for amateur astronomers Today s amateur astronomy is inextricably linked to personal computers Computer controlled go to telescopes are inexpensive CCD and webcam imaging make intensive use of the technology for capturing and processing images Planetarium software provides information and an easy interface for telescopes The Internet offers links to other astronomers information and software The list goes on and on Find out here how to choose the best planetarium program are commercial versions really better than freeware Learn how to optimise a go to telescope or connect it to a lap top Discover how to choose the best webcam and use it with your telescope Create a mosaic of the Moon or high resolution images of the planets Astronomy with a Home Computer is designed for every amateur astronomer who owns a home computer whether it is running Microsoft Windows Mac O S or Linux It doesn t matter what kind of telescope you own either a small refractor is just as useful as a big go to SCT for most of the projects in this book **Astronomy with**

a Home Computer Neale Monks, 2006-03-30 Here is a one volume guide to just about everything computer related for amateur astronomers Today s amateur astronomy is inextricably linked to personal computers Computer controlled go to telescopes are inexpensive CCD and webcam imaging make intensive use of the technology for capturing and processing images Planetarium software provides information and an easy interface for telescopes The Internet offers links to other astronomers information and software The list goes on and on Find out here how to choose the best planetarium program are commercial versions really better than freeware Learn how to optimise a go to telescope or connect it to a lap top Discover how to choose the best webcam and use it with your telescope Create a mosaic of the Moon or high resolution images of the planets Astronomy with a Home Computer is designed for every amateur astronomer who owns a home computer whether it is running Microsoft Windows Mac O S or Linux It doesn t matter what kind of telescope you own either a small refractor is just as useful as a big go to SCT for most of the projects in this book **Astronomical Sketching: A Step-by-Step**

Introduction Richard Handy, David B. Moody, Jeremy Perez, Erika Rix, Sol Robbins, 2007-10-08 If you have ever gazed through the eyepiece of a telescope at the magnificent rings and banded globe of Saturn or found yourself breathless at the sight of long shadows jutting across crater floors on the terminator of the Moon then you will understand the power of those direct visual experiences You are present at a unique event a connection between a part of the cosmos your eye and brain Sketching preserves this tie with direct observation because it allows the observer to spend time at the eyepiece surveying the object intimately while drawing This personal experiential relationship to celestial objects differentiates astronomical sketching from photographic or CCD imaging Sketching is an excellent way to record personal encounters with the celestial wonders because as you are drawing you are training your eye to perceive ever greater detail taking the fullest advantage of your telescope s light grasp and resolution Moreover astronomical sketches can be artwork in themselves for display and

decoration in the home or observatory Despite the fact that there are a wide variety of drawing media and techniques there exists no comprehensive treatment of the subject of astronomical sketching This book will present the amateur with fine examples of astronomical sketches and step by step tutorials in each medium including pencil pen and ink chalks and pastels painting and computer graphics programs This unique book can teach almost anyone to create beautiful sketches of celestial objects by following simple illustrated step by step instructions Readers can select a chapter related to their preferred class of object and rapidly learn techniques in several media Each chapter contains useful information regarding equipment types of telescope and eyepiece combinations techniques for preserving and archiving sketches and suggestions for accurate record keeping

Spectroscopy: The Key to the Stars Keith Robinson, 2007-08-15 While most amateur astronomers know about the red shift have a general idea of the way that the emission and absorption lines in stellar spectra provide an insight into the atomic processes of the star it is unusual to find someone who has any kind of detailed knowledge The reason isn't lack of interest far from it but is because all the books currently available are pitched at professional astronomers and degree students and are to say the least difficult to read This is the first non technical book on this subject written specifically for practical amateur astronomers It includes all the science necessary for a qualitative understanding of stellar spectra but avoids a mathematical treatment which would alienate many of its intended readers Any amateur astronomer who carries out or who is interested in observational spectroscopy and who wants a non technical account of the physical processes which determine the intensity and profile morphology of lines in stellar spectra will find this is the only book written specially for him And of course armchair astronomers who simply want to understand the physical processes which shape lines in stellar spectra will find this book equally fascinating

Real Astronomy with Small Telescopes Michael Gainer, 2007-06-04 The small refracting telescope with its simple direct design and permanently aligned optics is the time tested standard for personal use Easily portable it can be taken out of the house and set up at a moment's notice Or it can be packed conveniently into a small car for traveling to a dark observing site With moderate care and minimal maintenance the telescope and mount can last for generations These instruments provide sharp crisp high contrast images of the Moon and planets They are less susceptible to the effects of unstable air than larger ones and because of their low maintenance and durability they are ideal for the parent educator or lifelong learner Until recently however the high cost of small telescopes of sufficient quality for serious astronomical use has limited their accessibility During the past decade innovations in optical design and manufacture have lowered cost and improved quality Current developments in lens design make it possible to produce affordable refracting telescopes with short tube lengths and greater versatility The once very costly 90 mm Maksutov Cassegrain with its optimum combination of effective optics and portability now sells for a modest price I have often seen small instruments referred to as grab and go or quick look not worthy of consideration for serious observing I maintain they can be much more Despite their limits in types of observation 80 mm refractors and 90 mm Maksutovs have sufficient aperture and

magnifying power to provide a lifetime of observing pleasure They are ideal for lunar occultation measurements tracking the solar activity cycle observing variable stars and measuring binary stars Although all the activities described here are equally applicable to larger instruments none of them require an aperture larger than 80mm Through the use of common digital cameras the limiting stellar magnitude and image scale of small telescopes can be increased dramatically thus providing results not normally expected from larger instruments Much of this book applies that principle to making interesting and useful astronomical observations I have taken novel approaches to extending the use of small instruments for quantitative observations by applying unique methods for the analysis of digital camera photographs [Astronomical Cybersketching](#) Peter Grego, 2009-04-21 Sketching the Skies

Suddenly and without warning a new star appeared in the night sky and everyone in the community was alarmed Nobody could remember having seen its like before Dazzling to look at this unexpected intruder in the heavenly vault gave off a light that almost rivaled that of the full Moon drowning out the familiar patterns of stars with its glare The new star's steady white light penetrated deep into the sacred cave illuminating an age old patchwork of intricately drawn pictographs some of these depicted terrestrial objects and events from mundane sketches of bison to vast and sweeping panoramic images of wild galloping horses Other scenes showed celestial phenomena such as the phases of the Moon and prominent asterisms or star patterns The next morning accompanied by solemn chanting in which the entire community participated an elderly shaman entered the sacred cave by the light of a fiery brand and selected a suitable area upon which to depict the new star Once the artwork was finished the shaman reappeared at the cave entrance he held out his arms wide to the slowly brightening morning skies and announced that the powerful magic of the new star had been captured and could now be used to ensure the continuing prosperity of his tribe

Remote Observatories for Amateur Astronomers Gerald R. Hubbell, Richard J. Williams, Linda M. Billard, 2015-10-23 Amateur astronomers who want to enhance their capabilities to contribute to science need look no farther than this guide to using remote observatories The contributors cover how to build your own remote observatory as well as the existing infrastructure of commercial networks of remote observatories that are available to the amateur They provide specific advice on which programs to use based on your project objectives and offer practical project suggestions Remotely controlled observatories have many advantages the most obvious that the observer does not have to be physically present to carry out observations Such an observatory can also be used more fully because its time can be scheduled and usefully shared among several astronomers working on different observing projects More and more professional level observatories are open to use by amateurs in this way via the Internet and more advanced amateur astronomers can even build their own remote observatories for sharing among members of a society or interest group

Endorsements Remote Observatories for Amateur Astronomers Using High Powered Telescopes from Home by Jerry Hubbell Rich Williams and Linda Billard is a unique contribution centering on computer controlled private observatories owned by

amateur astronomers and commercialized professional amateur observatories where observing time to collect data can be purchased Before this book trying to piece together all of the necessary elements and processes that make up a remotely operated observatory was daunting The authors and contributors have provided in this single publication a wealth of information gained from years of experience that will save you considerable money and countless hours in trying to develop such an observatory If you follow the methods and processes laid out in this book and choose to build your own remotely operated observatory or decide to become a regular user of one of the commercial networks you will not only join an elite group of advanced astronomers who make regular submissions to science but you will become a member of an ancient fraternity Your high technology observatory will contain a high powered telescope no matter how large it is and from the comfort of home you can actively contribute to the work that started in pre history to help uncover the secrets of the cosmos

Scott Roberts Founder and President Explore Scientific LLC In the past three and a half decades since I first became involved with remote observatories the use of remote unmanned telescopes at fully automated observatories has advanced from a very rare approach for making astronomical observations to an increasingly dominant mode for observation among both professional and amateur astronomers I am very pleased to see this timely book being published on the topic I highly recommend this book to readers because it not only covers the knowledge needed to become an informed user of existing remote observatories but also describes what you need to know to develop your own remote observatory It draws on more than two decades of remote observatory operation and networking by coauthor Rich Williams as he developed the Sierra Stars Observatory Network SSON into the world class network it is today This book is the ideal follow on to coauthor Jerry Hubbell s book Scientific Astrophotography Springer 2012 Remote observatories have a bright future opening up astronomy to a new and much larger generation of professional amateur and student observers Machines and humans can and do work well together I hope you enjoy reading this book as much as I have and will take advantage of the developments over the past several decades by the many pioneers of remote observatories Russ Genet PhD California Polytechnic State University

Observing Saturn for the first time is a memory that stays with us for the rest of our lives and for many it is the start of an odyssey an odyssey into observational astronomy Remote Observatories for Amateur Astronomers is a book written for observers beginners and old hands alike providing detailed advice to those wishing to improve their observing skills Many will want to build and operate a remotely controlled observatory and for those Part I of this book is an invaluable source of information If like me you choose to avoid the capital outlay of owning your own facility Part II describes how you can use one of the many professionally run large scopes where for a few dollars you can capture spectacular color images of nebulae galaxies and comets My own scientific interest in short period eclipsing binaries has been made possible through the availability of remote telescopes such as those operated by the Sierra Stars Observatory Network SSON Whichever route you take this book is essential reading for all who aspire to serious observing David Pulley The Local Group UK The Urban

Astronomer's Guide Rod Mollise, 2006-12-22 Most amateur astronomers yearn to observe more frequently. Many of them, however, live in urban and highly developed suburban areas that are heavily light polluted. Due to this light pollution, they are under the impression that deep sky objects, nebulae, galaxies, star clusters are either invisible or not worth viewing from home. This book describes the many objects that can be seen in a bright urban sky and shows the city or suburban astronomer how to observe object after object season after season. This book covers the why, how, and what of astronomy under light polluted skies. The prospective city-based observer is told why to observe from home; there are hundreds of spectacular objects to be seen from the average urban site; how to observe the city sky; telescopes, accessories, and modern techniques; and what to observe. About 50% of the book is devoted to describing tours of the sky with physical and observational descriptions at the eyepiece, drawings, and photographs.

Pattern Asterisms John Chiravalle, 2007-04-22 Since the very beginning of astronomy, people have looked up sky and constructed patterns, the constellations, out of the almost random scattering of stars in the night sky. The fact that the constellations are still used today reflects not their historical origins but their usefulness in identifying bright stars in the rotating dome of the sky. Most people and all astronomers are familiar with, for example, the constellation of Orion and can thus easily point to Betelgeuse and Bellatrix as being Orion's shoulders. It is the pattern made by the constellation that makes them easy to identify. Suitable for observers using binoculars and medium size telescopes, this catalog includes star pictures, dot-to-dot outlines of the objects on a negative photograph for clarity, and an artistic image next to the star patterns. Size, stellar magnitudes, and coordinates are provided along with north direction, star hopping instructions, and Sky Atlas 2000 references. The imaginative observer will surely begin to develop a new insight into star patterns and will start seeing patterns of his own under this catalog's influence.

Aurora Neil Bone, 2007-06-05 This new book addresses a gap in the literature, offering an explanation of the aurora's causes, how the occurrence of major events may now be predicted, and how amateur observers can go about recording displays. This is the first serious book about aurora written for practical but non-professional observers. It provides a concise, accessible description of the various auroral forms and how to record them, illustrated with color images of recent displays. It contains details of Space Weather forecasting websites, how to interpret and use the information given on these, and how to anticipate auroral activity.

The Night Sky Companion Tammy Plotner, 2009-02-28 T. Plotner, The Night Sky Companion, DOI 10.1007/978-0-387-79509-6_11, Springer Science+Business Media LLC, 2009. 2. TheNightSkyCompanion. Welcome fellow travelers to the stars!

For the next year, we will take a journey together across the night sky. In these pages, you will find lunar features, planets, meteor showers, single and multiple stars, open and globular clusters, as well as distant galaxies. There will be astronomy history, to explore famous astronomers, to meet and learn from. You will find things here for those who enjoy stargazing with just their eyes, binoculars, or even the largest of telescopes. Although these observing tips are designed with all readers in mind, not everyone lives in the same time zone or the same hemisphere, and certainly no one has clear skies every night. But no

matter where you live or who you are it is my hope that somewhere here you find something of interest to keep you looking up LearningtheNightSky If you are new to astronomy it might seem difficult to learn all those stars Relax It s much easier than you think Just like moving to a new city everything will seem unfamiliar at first but with a little help from some maps you ll soon be finding your way around like a pro Once you become familiar with the constellations and how they appear to move across the night sky the rest is easy If you do not have maps of your own try visiting your local library or one of many online sites thatcangeneratethem Theygiveobjectpositionsingreatdetail andmosthaveakeyofGreekletters to help you understand star hop instructions

The Observer's Year Patrick Moore,2006-03-30 For this new edition the text has been brought fully up to date and the period covered is from 2005 to 2010 Inevitably this has meant that large sections of the book have been completely rewritten Much has happened since the rst edition was published in 1998 Patrick Moore December 2004 v 00 OY2e_PRE i xvi qxd 14 2 05 2 03 PM Page vii Contents Preface v Introduction ix Phases of the Moon 2005 2010 xii January 1 February 39 March 67 April 97 May 127 June 155 July 181 August 209 September 237 October 265 November 295 December 325 Appendix A The 88 Constellations 351 Appendix B Glossary 353 Appendix C The Greek Alphabet 363 Index 365 vii 00 OY2e_PRE i xvi qxd 14 2 05 2 03 PM Page ix Introduction It was once said that the night sky always looks much the same In fact nothing could be further from the truth There are 365 days in each year 366 in a Leap Year and from an astronomical point of view no two are alike

How to Photograph the Moon and Planets with Your Digital Camera Tony Buick,Philip Pugh,2011-01-25 Although astronomical CCD cameras can be very costly digital cameras the kind you use on holiday on the other hand are relatively inexpensive Moreover their technology especially thermal noise sensitivity ISO number and resolution has progressed to a point where such cameras are more than capable of photographing the brighter astronomical objects Now Tony Buick has teamed up with fellow author and astro imager Phil Pugh to produce a completely revised updated and extended second edition to How to Photograph the Moon and Planets with your Digital Camera first published in 2006 The revisions take into account changing and improving camera technology and some items which are now available commercially but which previously had to be home made The section of solar observing has been expanded to include observing by H alpha light and among the many additional sections are photographing the constellations aurorae and basic post imaging processing

Astrophotography on the Go Joseph Ashley,2014-10-03 No longer are heavy sturdy expensive mounts and tripods required to photograph deep space With today s advances in technology all that is required is an entry DSLR and an entry level GoTo telescope Here is all of the information needed to start photographing the night sky without buying expensive tracking mounts By using multiple short exposures and combining them with mostly freeware computer programs the effect of image rotation can be minimized to a point where it is undetectable in normal astrophotography even for a deep sky object such as a galaxy or nebula All the processes techniques and equipment needed to use inexpensive lightweight altazimuth and equatorial mounts and very short exposures photography to image deep space

objects are explained step by step in full detail supported by clear easy to understand graphics and photographs Currently available lightweight mounts and tripods are identified and examined from an economic versus capability perspective to help users determine what camera telescope and mount is the best fit for them A similar analysis is presented for entry level telescopes and mounts sold as bundled packages by the telescope manufacturers This book lifts the veil of mystery from the creation of deep space photographs and makes astrophotography affordable and accessible to most amateur astronomers

Choosing and Using Astronomical Eyepieces William Paolini,2013-08-23 A valuable reference that fills a number of niches including that of a buyer s guide technical desk reference and observer s field guide It documents the past market and its evolution right up to the present day In addition to appealing to practical astronomers and potentially saving them money it is useful both as a historical reference and as a detailed review of the current market place for this bustling astronomical consumer product What distinguishes this book from other publications on astronomy is the involvement of observers from all aspects of the astronomical community and also the major manufacturers of equipment It not only catalogs the technical aspects of the many modern eyepieces but also documents amateur observer reactions and impressions over the years using many different eyepieces Eyepieces are the most talked about accessories and collectible items available to the amateur astronomer No other item of equipment commands such vigorous debate or has evolved into such a remarkable array of forms and functions Choosing and Using Astronomical Eyepieces provides a vast amount of reference material to point readers towards the best buys and the right eyepieces for different kinds of observing

Guide to Observing Deep-Sky Objects Jeff Farinacci,2008 Guide to Observing Deep Sky Objects is an invaluable reference for all amateur astronomers The book contains for each constellation 1 a star chart showing the Bayer labels 2 a table for many of the stars in the constellation along with their positions and magnitudes and 3 a table of the major deep sky objects in the constellation with relevant observational data Facing pages provide unique year long graphs that show when the constellation is visible in the sky which allows the user to quickly determine whether a given constellation can be seen and when the best time to see it will be

Twenty-Five Astronomical Observations That Changed the World Michael Maret-Crosby,2013-06-28

Twenty Five Astronomical Observations That Changed the World takes twenty five journeys through space back in time and into human history We begin with the simplest sight of the Tycho Crater on the Moon through a repeat of Galileo s observations of Jupiter s moons and then move out towards the nebulae stars and galaxies The astronomical observations repeat the original groundbreaking discoveries that have changed our understanding of science and ourselves This title contains graded observing challenges from the straightforward to the more difficult in chapter order It offers clear observing tips and lots of practical help presuming no prior in depth knowledge of equipment Binoculars and or a small astronomical telescope are all that is required for most of the observations Secondly it explores for each observation the science of what is seen adding to the knowledge and enjoyment of amateur astronomers and offering lots of reading for the cloudy nights when

there is not a star in view Thirdly the book puts the amateur astronomers observations into a wider perspective Twenty Five Astronomical Observations That Changed the World makes the observer part of that great story of discovery Each chapter each observing challenge shows how to observe and then how to look with understanding The projects begin with practicalities where the object is how best is it observed and with what appropriate equipment usually a small to medium aperture amateur telescope binoculars even the naked eye Twenty Five Astronomical Observations that Changed the World guides even the inexperienced amateur astronomer beginners can use the book around a variety of night sky objects and reminds the more experienced how they can best be seen These practical observations put us in contact with all the history and culture surrounding them through scientific speculation and literature to those first fuzzy images made in 1959 by the Russian space probe Luna 3

Astronomy Now ,2008 **Astronomy with a Budget Telescope** Patrick Moore,John Watson,2012-02-28 Astronomy with a Budget Telescope 2nd Edition is a complete introduction to buying and using a low cost amateur astronomical telescope It provides essential hints and tips about what to look for when buying on a budget the best are now excellent value but they all lack an astronomer s advice about setting them up and using them Astronomy with a Budget Telescope was first published in 2003 since then technology has moved on substantially The main factors are first the availability of fairly inexpensive computer controlled go to telescopes which after setting up can automatically locate any celestial objects with reasonable accuracy Second digital cameras have now almost completely displaced wet film cameras and some of them are particularly well suited to astronomical use Third prices are down and quality is up This new edition is revised and extended to include using a low cost go to telescope there are various pitfalls to be avoided and how this class of instrument can make amateur astronomy more accessible to those with limited time at their disposal It also discusses the new breed of mid range digital cameras that include powerful on board processing and image enhancement software that used to be available only to people with advanced astronomical CCD cameras Finally there are detailed reviews and test reports on some of the budget telescopes that are available on Main Street and by mail order

The NexStar Evolution and SkyPortal User's Guide James L. Chen,Adam Chen,2016-05-26 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

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