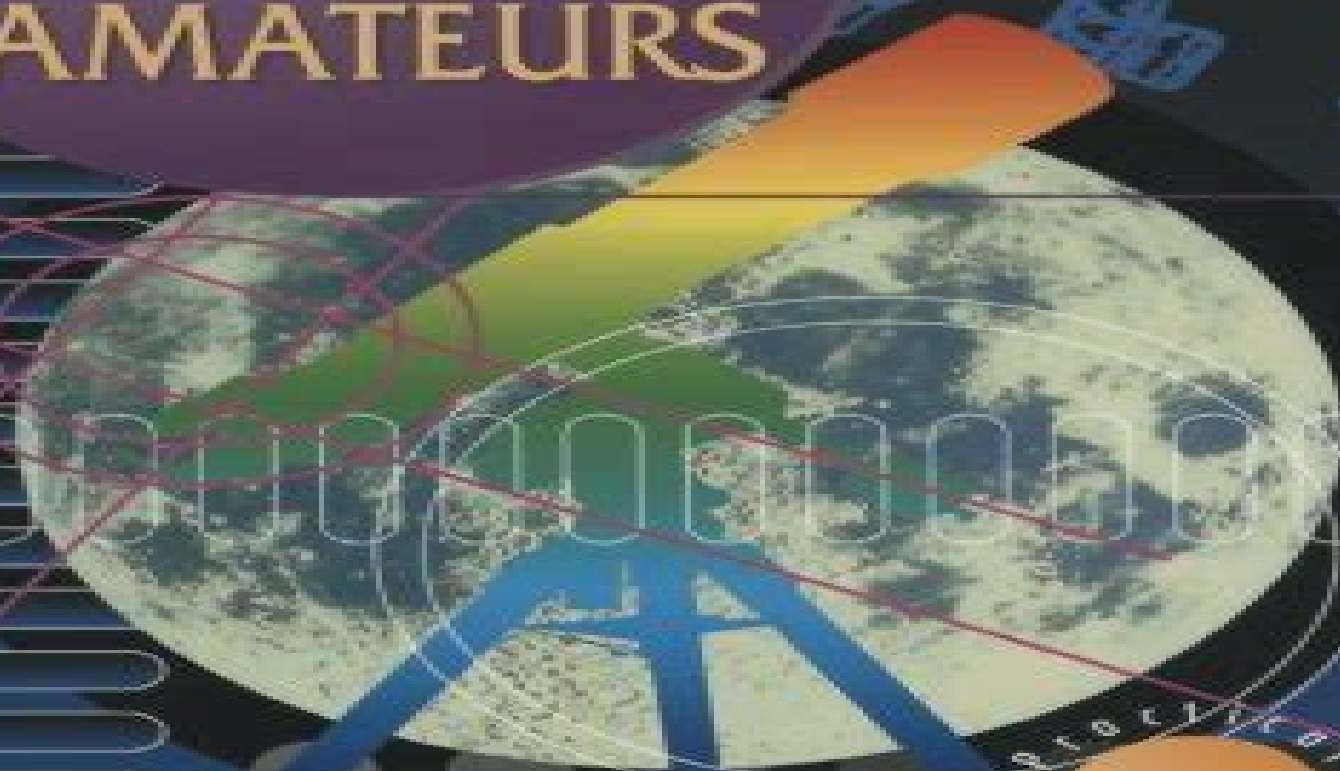


Martin Mobberley

ASTRONOMICAL EQUIPMENT FOR AMATEURS



Astronomy

Series edited by Patrick Moore

Astronomical Equipment For Amateurs The Patrick Moore Practical Astronomy Series

Robert W. Argyle



Astronomical Equipment For Amateurs The Patrick Moore Practical Astronomy Series:

Astrophysics is Easy! Mike Inglis, 2007-07-14 Astrophysics is a subject that is often with some justification regarded as extremely difficult requiring at least degree level mathematics as a prerequisite to its understanding Consequently many amateur astronomers just don't bother and miss out on the fascinating fundamentals of the subject and often on an understanding of exactly what they are observing Mike Inglis quantitative approach to astrophysics cuts through all the incomprehensible mathematics and explains all aspects of astrophysics in simple terms A unique feature of this book is the way that example objects for practical observation are given at every stage so that practical astronomers can go and look at the object or objects under discussion using only commercial amateur equipment The New Amateur Astronomer Martin Mobberley, 2011-09-30 Amateur astronomy has changed beyond recognition in less than two decades The reason is of course technology Affordable high quality telescopes computer controlled go to mountings autoguiders CCD cameras video and as always computers and the Internet are just a few of the advances that have revolutionized astronomy for the twenty first century Martin Mobberley first looks at the basics before going into an in depth study of what's available commercially He then moves on to the revolutionary possibilities that are open to amateurs from imaging through spectroscopy and photometry to patrolling for near earth objects the search for comets and asteroids that may come close to or even hit the earth The New Amateur Astronomer is a road map of the new astronomy equally suitable for newcomers who want an introduction or old hands who need to keep abreast of innovations From the reviews This is one of several dozen books in Patrick Moore's Practical Astronomy series Amid this large family Mobberley finds his niche the beginning high tech amateur The book's first half discusses equipment computer driven telescopes CCD cameras imaging processing software etc This market is changing every bit as rapidly as the computer world so these details will be current for only a year or two The rest of the book offers an overview of scientific projects that serious amateurs are carrying out these days Throughout basic formulas and technical terms are provided as needed without formal derivations An appendix with useful references and Web sites is also included Readers will need more than this book if they are considering a plunge into high tech amateur astronomy but it certainly will whet their appetites Mobberley's most valuable advice will save the book's owner many times its cover price buy a quality telescope from a reputable dealer and install it in a simple shelter so it can be used with as little set up time as possible A poor purchase choice and the hassle of setting up are why most fancy telescopes gather dust in their owners' dens Summing Up Highly recommended General readers lower and upper division undergraduates T D Oswalt CHOICE March 2005 The Amateur Astronomer Patrick Moore, 2006-07-31 any popular books upon astronomy have been written during the past few years but most of them cater either for the casual dabbler who is content to learn from the depths of his armchair or else for the serious amateur who already knows the main facts What I have done or tried to do is to strike a happy mean This book has been aimed at the needs of the beginner who knows nothing whatsoever but who is

nevertheless anxious to make a start with what equipment he can collect at limited cost All astronomers professional or amateur were beginners once and all have had to draw upon the experience of those who have learned before them I feel some diffidence about offering myself as a guide but at least I have one qualification in my early days as an observer I made almost every mistake that it is possible to make This explains the frequent occurrence of such phrases as I once saw and I remember that when I I hope therefore that what I have written may prevent others from falling into the same ridiculous traps

Astronomical Equipment for Amateurs Martin Mobberley, 2012-12-06 Telescopes refractors and reflectors are the main items of equipment used by almost every amateur astronomer The purpose of astronomical telescopes is to collect and focus more light than the human eye can forming an image that can be viewed photographed or analysed *Astronomical Equipment for Amateurs* makes buying and using both telescopes and their ancillary instruments easy for astronomers of all abilities It begins by looking at the advantages and disadvantages of the basic types of refractors reflectors mountings and accessories Observation techniques are also included along with the use of filters colour anti pollution and nebula types of photography piggy back prime focus and eyepiece projection and also CCD imaging including types of CCD camera and their advantages and disadvantages compared to photography Martin Mobberley provides a fascinating insight into astronomical software

The Practical Astronomer's Deep-sky Companion Jess K. Gilmour, 2012-12-06 As an amateur astronomer with years of experience I marvel at the joy experienced by a beginner who successfully hunts down their first deep space object in a telescope No matter what age or skill level nailing a previously unobserved object through the eye piece both instantly defines their love of the hobby and gives a feeling of scientific accomplishment no matter how well known to others the object may be With the advancement in computer guided telescopes and automatic object centering the amateur astronomy hobby has experienced tremendous and unprecedented growth First timers are attending public observing sessions or summer star parties with low cost computer controlled telescopes and are instantly rewarded with views of celestial objects with strange names and numbers But what to look at Can I see it through my telescope For the seasoned observer the problem is different I've seen that object a thousand times can anybody show me something new Astrophotographers novice and seasoned often wonder about capturing new objects on film or CCD but first spend hours poring through star charts familiarizing themselves with the star field selecting guide star etc The contents of this book combines in a clear and concise manner information that will assist beginner novice intermediate and advanced amateur astronomy hobbyists The objects are all visible in medium to large aperture telescopes and provide a wide selection of objects to observe or photograph vii

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From Casual Stargazer to

Amateur Astronomer Dave Eagle, 2013-10-16 The beginning astronomical observer passes through a series of stages The initial stage is hugely exciting and gives the beginner a real buzz as he discovers some of the faint fuzzy objects markings on the planets rings around Saturn and the craters on the Moon But as the novice observer progresses he or she wants to know

what more there is than looking at faint fuzzy blobs or indistinct planet markings Many jump to the conclusion wrongly that they need to spend lots of money on expensive equipment to progress From Casual Stargazer to Amateur Astronomer has been written specifically to address this group of budding stargazers Astronomy is much more than a quick sightseeing tour Patient observers who can develop their skills will start to appreciate what they are seeing and will know exactly what to look out for on any particular night And equally important they will learn what not to expect to see From Casual Stargazer to Amateur Astronomer is for those who want to develop observing skills beyond mere sightseeing and learn some of the techniques used to carry out enjoyable and scientifically useful observations It will also direct readers to make informed choices about what can be seen and when This book is for anyone keen to develop their skills as an amateur astronomer

Astronomy with Small Telescopes Stephen Tonkin,2012-12-06 Small telescopes have a lot to recommend them Cost is of course a consideration but their most positive feature is sheer portability Some manufacturers have tried to make large telescopes more portable with mixed success but the opposite approach that of making small telescopes more effective is what this book is all about Good 2 inch 60mm telescopes are now available for beginners and major American manufacturers now offer small affordable computer controlled instruments that are capable of superb results Stephen Tonkin has gathered the experience of users of small telescopes to provide an insight into just what is possible for newcomers to astronomy or experienced observers who simply want to use a small really portable telescope *Observing and Measuring Visual Double Stars* Bob Argyle,2006-04-18 From the reviews I recommend it to anyone with an interest in binary stars who wants to learn more about these fascinating objects Jocelyn Tomkin The Observatory April 2005 *Observing and Measuring Visual Double Stars* Robert W. Argyle,2004-01-09 From the reviews I recommend it to anyone with an interest in binary stars who wants to learn more about these fascinating objects Jocelyn Tomkin The Observatory April 2005 **The NexStar User's Guide** Michael Swanson,2012-12-06 Celestron s NexStar telescopes along with Meade s ETX and LX ranges together dominate the international market for affordable computer controlled go to telescopes Michael Swanson has written this complete detailed guide to buying using and maintaining NexStar telescopes to appeal to all buyers or potential buyers of these telescopes It contains just about everything from basic descriptions of models to technical details of alignment and even programming Although this book is highly comprehensive it is suitable for beginners there is a chapter on Astronomy Basics and experts alike Every NexStar owner and anyone thinking of buying a NexStar will want this book *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

Choosing and Using a Schmidt-Cassegrain Telescope Rod Mollise, 2012-12-06 Amateur astronomy is becoming more and more popular mostly because of the availability of relatively low cost astronomical telescopes of superb quality commercially made Schmidt Cassegrain and Maksutovs Rod Mollise s book contains everything amateur astronomers need to know about these telescopes Featuring but not exclusively the ubiquitous Meade and Celestron ranges he describes what these instruments will do how to use them and which are the best to choose This book includes everything There are sections on accessories observing techniques and hints and tips gleaned from his 25 years experience with this type of telescope cleaning collimating maintaining the telescope and mounting using the telescope in various conditions computer control imaging wet digital and CCD This is the perfect book for amateur astronomers who are about to invest in a new Schmidt Cassegrain or Maksutov telescope or for those who already have one and want to get the best out of it *Observing Comets* Nick James, Gerald North, 2013-11-11 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 there are so many amateurs looking for them and techniques and instruments have improved dramatically in the past few years After a short but detailed introduction to the comets themselves Nick James and Gerald North describe comet hunting photographing and imaging comets and digital image processing The use of computers for orbital calculations and even helping to discover new comets is given a full chapter as are advanced techniques including comet photometry and spectroscopy This comprehensive book has an accompanying CD ROM and is at once a primer for comet hunters and a reference text for more advanced amateur astronomers

Observing Variable Stars Gerry A. Good, 2012-12-06 Observing variable stars is one of the major contributions amateur astronomers make to science There are 36 000 variable stars listed in the General Catalogue of Variable Stars so it is clearly impossible for the limited number of professional observatories to target even the majority of them That s where amateur astronomers come in thousands of them turning their telescopes to the sky every night Variable star observing is the most popular of real science activities for amateurs and Gerry Good s book provides everything needed The first part of the book provides a highly detailed account of the various classes of variable star with examples illustrations and physical descriptions The second section covers practical aspects of observing everything from preparation and planning through observing techniques to data management and

reduction *The New Amateur Astronomer* Martin Mobberley, 2012-12-06 Amateur astronomy has changed beyond recognition in less than two decades The reason is of course technology Affordable high quality telescopes computer controlled go to mountings autoguiders CCD cameras video and as always computers and the Internet are just a few of the advances that have revolutionized astronomy for the twenty first century Martin Mobberley first looks at the basics before going into an in depth study of what s available commercially He then moves on to the revolutionary possibilities that are open to amateurs from imaging through spectroscopy and photometry to patrolling for near earth objects the search for comets and asteroids that may come close to or even hit the earth *The New Amateur Astronomer* is a road map of the new astronomy equally suitable for newcomers who want an introduction or old hands who need to keep abreast of innovations From the reviews This is one of several dozen books in Patrick Moore s *Practical Astronomy* series Amid this large family Mobberley finds his niche the beginning high tech amateur The book s first half discusses equipment computer driven telescopes CCD cameras imaging processing software etc This market is changing every bit as rapidly as the computer world so these details will be current for only a year or two The rest of the book offers an overview of scientific projects that serious amateurs are carrying out these days Throughout basic formulas and technical terms are provided as needed without formal derivations An appendix with useful references and Web sites is also included Readers will need more than this book if they are considering a plunge into high tech amateur astronomy but it certainly will whet their appetites Mobberley s most valuable advice will save the book s owner many times its cover price buy a quality telescope from a reputable dealer and install it in a simple shelter so it can be used with as little set up time as possible A poor purchase choice and the hassle of setting up are why most fancy telescopes gather dust in their owners dens Summing Up Highly recommended General readers lower and upper division undergraduates T D Oswalt CHOICE March 2005 **Astronomical Sketching: A Step-by-Step Introduction** Richard Handy, David B. Moody, Jeremy Perez, Erika Rix, Sol Robbins, 2007-06-12 This book presents 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 techniques for preserving and archiving sketches and suggestions for accurate record keeping **Observer's Guide to Stellar Evolution** Mike Inglis, 2012-12-06 Stellar evolution the birth development and death of stars is central to our current understanding of astronomy but surprisingly the majority of amateur astronomers lack a full understanding of the physics of stars Current books on the market tend to be highly theoretical and off putting in *Observer s Guide to Stellar Evolution* Mike Inglis brings this subject to life in a unique way By combining a step by step introduction with suggestions for practical observations of stars at different stages in their evolution amateur astronomers

regardless of their current level of knowledge will find this book fascinating and informative Accessible to every amateur astronomer regardless of background knowledge Step by step introduction to the theory of stellar evolution Includes many examples of stars at different stages in their evolution that the reader can observe for him herself Mathematics is made accessible by being presented in boxes that readers can skip over if they prefer 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 *Illustrated Dictionary of Practical Astronomy* C. R. Kitchin, 2012-12-06 The purpose of this book is two fold Firstly to provide a handy quick source of reference of the terms techniques instruments formulas processes etc for practising observers whether it is their first look through someone else's small telescope or whether they have spent decades building their own instruments observing with them and are regularly producing results to rival those of the professionals It is not principally aimed at professional observers but in order to be sufficiently comprehensive for its intended audience many entries have been included which will be relevant at that level In particular though the more esoteric parts of spectroscopy have not been included References to specific observatories are included if their instrumentation includes optical telescopes over 1 m in diameter or radio dishes over 20 m Individual entries for telescopes of 4 m or over are included and for the larger radio instruments plus other telescopes that may be of interest for historical or other reasons for example the 1m Yerkes refractor Spacecraft have generally not been included apart from the Hubble space telescope because their short working lives mean that most current spacecraft will no longer be operating by the time that this book is published Also the names of spacecraft are frequently changed after launch making it difficult to identify which mission is which References to commercial organisations and to some widely available commercial products have been included but an intending purchaser should always obtain up to date information Scientific Astrophotography Gerald R. Hubbell, 2012-11-09 Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges once they have mastered visual observing and the basic imaging of various astronomical objects It will also be a useful reference for scientifically

inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging This book is not about making beautiful astronomical images it is about recording astronomical images that are scientifically rigorous and from which accurate data can be extracted This book is unique in that it gives readers the skills necessary for obtaining excellent images for scientific purposes in a concise and procedurally oriented manner This not only gets the reader used to a disciplined approach to imaging to maximize quality but also to maximize the success and minimize the frustration inherent in the pursuit of astrophotography The knowledge and skills imparted to the reader of this handbook also provide an excellent basis for beautiful picture astrophotography There is a wealth of information in this book a distillation of ideas and data presented by a diverse set of sources and based on the most recent techniques equipment and data available to the amateur astronomer There are also numerous practical exercises Scientific Astrophotography is perfect for any amateur astronomer who wants to go beyond just astrophotography and actually contribute to the science of astronomy

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