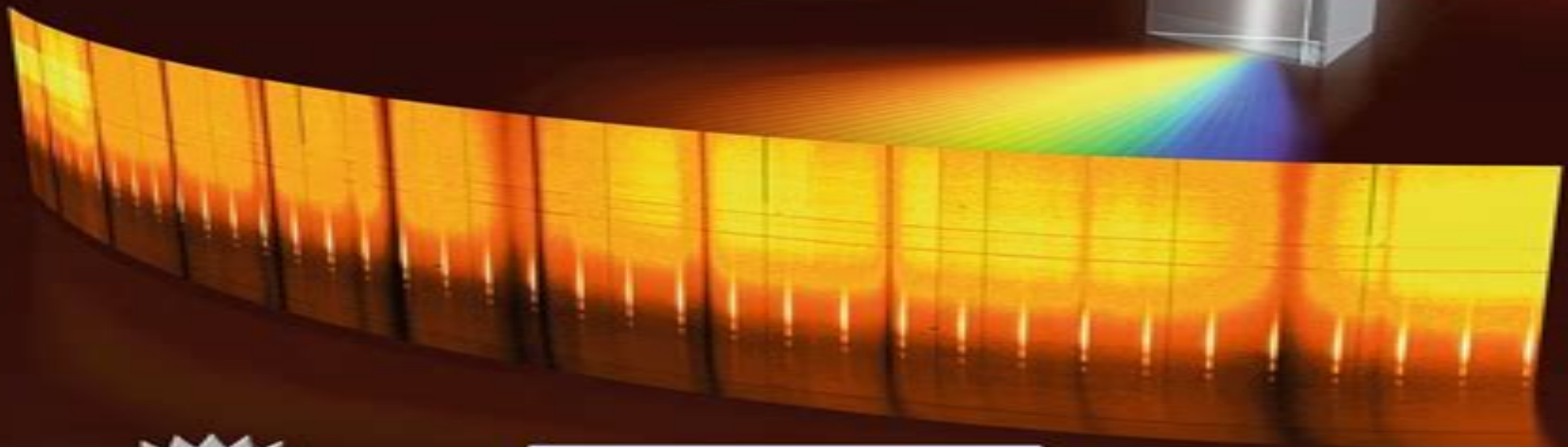


Ken M. Harrison

Astronomical Spectroscopy for Amateurs



Astronomical Spectroscopy For Amateurs The Patrick Moore Practical Astronomy Series

Mark Gallaway



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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

Spectroscopy: The Key to the Stars Keith Robinson, 2007-01-16 This is the first non technical book on spectroscopy 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 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 them It is an ideal companion to existing books on observational amateur astronomical spectroscopy

Practical Amateur Spectroscopy Stephen F. Tonkin, 2013-11-11 This book contains everything an amateur astronomer needs to know to begin observing whilst going relatively deeply into the subject for those who are already involved Covers a very wide range of available equipment from simple DIY spectrometers to the most expensive commercially made instruments Describes basic principles so that the reader understands how to analyse the spectra he/she sees or records Contributions by leading amateur astronomers from the USA and Europe

Astronomical Spectroscopy for Amateurs Ken M. Harrison, 2011-02-07 *Astronomical Spectroscopy for Amateurs* is a complete guide for amateur astronomers who are looking for a new challenge After a brief overview of the development of spectrometers and an introduction to the theory of stellar spectra the book goes on to examine the various types of spectrometers available to amateurs Next practical sections address all aspects of setting up and using various types of commercially available and home built spectrometers A final part gives detailed instructions for the design and construction of three different spectrometers along with the necessary design theory minimal math The home made spectrometers have performance capabilities near or equal to commercial units but are constructed using basic hand tools for a fraction of the cost This up to date practical spectroscopy book will enable amateur astronomers to develop the skills and equipment needed to prepare scientifically acceptable

spectra data and to make a valuable contribution to ProAm projects Using Commercial Amateur Astronomical Spectrographs Jeffrey L. Hopkins, 2013-11-19 Amateur astronomers interested in learning more about astronomical spectroscopy now have the guide they need. It provides detailed information about how to get started inexpensively with low resolution spectroscopy and then how to move on to more advanced high resolution spectroscopy. Uniquely, the instructions concentrate very much on the practical aspects of using commercially available spectroscopes rather than simply explaining how spectroscopes work. The book includes a clear explanation of the laboratory theory behind astronomical spectrographs and goes on to extensively cover the practical application of astronomical spectroscopy in detail. Four popular and reasonably priced commercially available diffraction grating spectrographs are used as examples. The first is a low resolution transmission diffraction grating, the Star Analyser spectrograph. The second is an inexpensive fiber optic coupled bench spectrograph that can be used to learn more about spectroscopy. The third is a newcomer, the ALPY 600 spectrograph. The fourth spectrograph considered is at the other end of the market, both in performance and cost, the high resolution Lhires III. While considerably more expensive, this is a popular and excellent scientific instrument that allows more advanced amateur astronomers to produce scientifically valuable data. With all of these tools in place, the amateur astronomer is well prepared to forger deeper into the night sky using spectroscopy.

Grating Spectroscopes and How to Use Them Ken M. Harrison, 2012-03-02 Written for amateur astronomers just getting into this area of the subject, this is the perfect companion for first time spectroscope users with no heavy mathematics and with information on how to buy and use an entry level spectroscope costing around 150.

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 **An**

Introduction to Observational Astrophysics Mark Gallaway, 2015-11-16 Observational Astrophysics follows the general outline of an astrophysics undergraduate curriculum targeting practical observing information to what will be covered at the university level This includes the basics of optics and coordinate systems to the technical details of CCD imaging photometry spectrography and radio astronomy General enough to be used by students at a variety of institutions and advanced enough to be far more useful than observing guides targeted at amateurs the author provides a comprehensive and up to date treatment of observational astrophysics at undergraduate level to be used with a university s teaching telescope The practical approach takes the reader from basic first year techniques to those required for a final year project Using this textbook as a resource students can easily become conversant in the practical aspects of astrophysics in the field as opposed to the classroom *More Small Astronomical Observatories* Patrick Moore, 2012-12-06 Almost every serious amateur astronomer knows the benefit of having a fixed observatory of some sort it saves a vast amount of time and effort during every observing session and this book provides the necessary help More Small Astronomical Observatories details the methods and techniques employed by non professional astronomers from all over the world providing a wonderful resource for anyone wishing to build a small observatory of almost any kind It s a fun read too **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 **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 **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 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 *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

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 center ing 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 celes tial 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 Contents Introduction XI Andromeda 1 Aquarius 4 Aquila 7 Aries 9 Auriga 12 Bootes **Amateur Telescope Making**

Stephen Tonkin,2012-12-06 Many amateur astronomers make their own instruments either because of financial considerations or because they are just interested Amateur Telescope Making offers a variety of designs for telescopes mounts and drives which are suitable for the home constructor The designs range from simple to advanced but all are within the range of a moderately well equipped home workshop The book not only tells the reader what he can construct but also what it is sensible to construct given what time is available commercially Thus each chapter begins with reasons for undertaking the project then looks at theoretical consideration before finishing with practical instructions and advice An indication is given as to the skills required for the various projects Appendices list reputable sources of mail order materials and components The telescopes and mounts range from shoestring very cheap instruments to specialist devices that are unavailable commercially The Observational Amateur Astronomer Patrick Moore,2012-12-06 Patrick Moore has pulled together a group of professional and amateur astronomers each an expert in a particular field to describe how to observe

every category of object that is within reach of an astronomical telescope of modest size Each chapter deals with a different class of object covering the whole range of possibilities from the Moon planets and stars to more specialised observations of comets novae and meteors If you own or are thinking of buying an astronomical telescope here is the book that will help you get the most enjoyment out of it It also explains how best to use your telescope for proper scientific observations for astronomy is one of the few remaining areas of science where a lot of useful work can be carried out by non professionals A companion book *The Modern Amateur Astronomer* deals with the non observational aspects of astronomy from buying a telescope or making your own through electronic equipment and accessories to more technical aspects such as spectroscopy and astrophotography

Astronomy of the Milky Way Mike Inglis, 2012-12-06 One of the wonders of the universe we live in is the Milky Way It spans the entire sky and can be seen every night of the year from anywhere on Earth This is the first book that deals specifically with what can be seen within the Milky Way from a practical observer's point of view *Astronomy of the Milky Way* covers every constellation that the Milky Way passes through and describes in detail the many objects that can be found therein including stars double and multiple stars emission nebulae planetary nebulae dark nebulae and supernovae remnants open and galactic clusters and galaxies It also describes the one thing that is often left out of observing guides the amazing star clouds of the Milky Way itself It is one of a two volume set that deal with the entire Milky Way this second volume looks at what can be seen predominantly from the Southern skies In addition to the descriptive text there are many star charts and maps as well as the latest up to date images made by observatories around the world and in space as well as images taken by amateur astronomers Equipped with this book an amateur astronomer can go out on any clear night of the year and observe the galaxy we live in *The Milky Way*

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

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