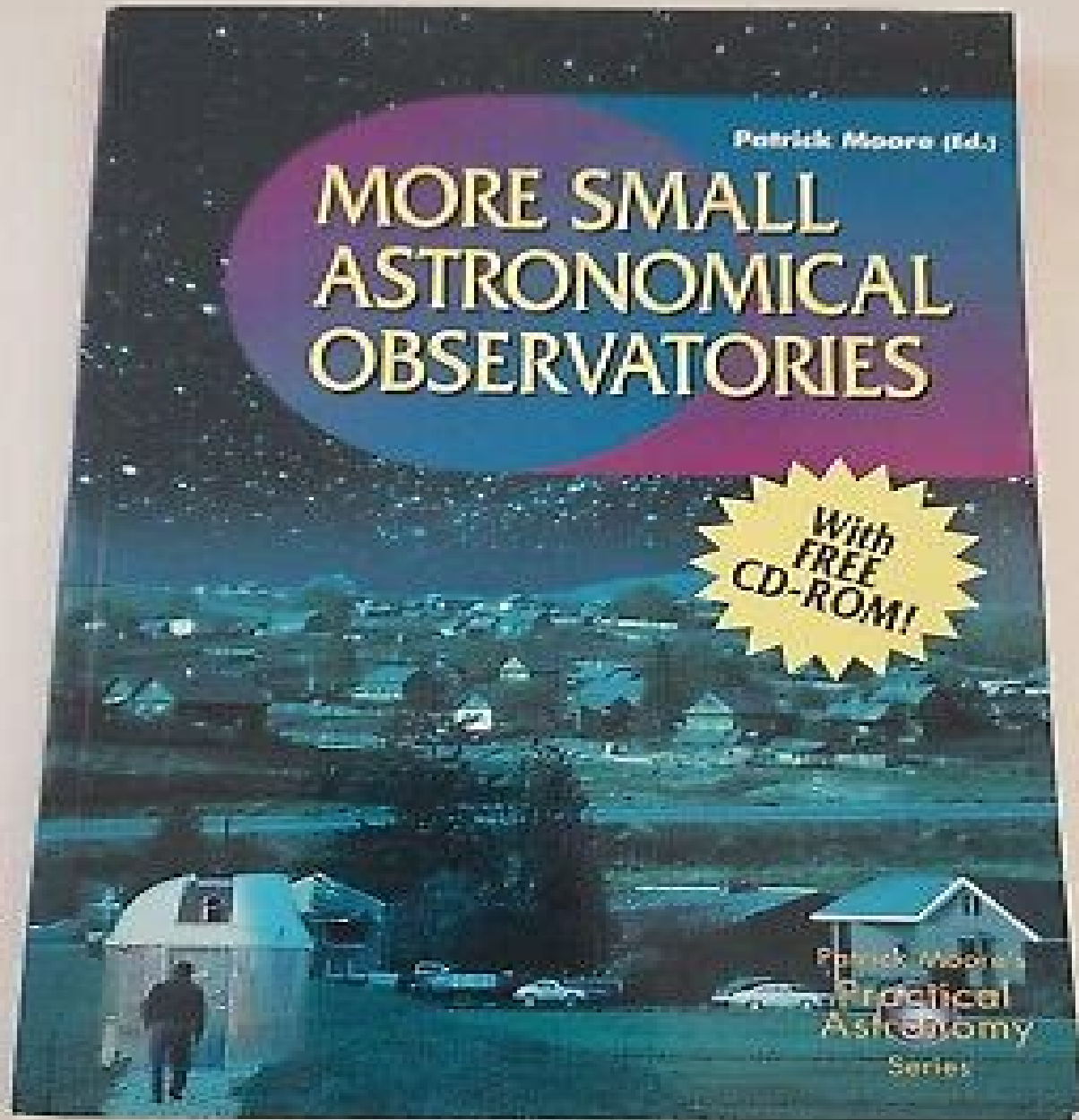


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Gerry A. Good



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Construction David Arditti, 2007-12-20 Arditti s approachable work covers the all the details of design siting and construction once a basic type has been decided upon It is written in a way that is equally applicable to the USA and UK where there are slightly different building regulations and deals with matters that are basic to building and commissioning any amateur observatory Uniquely David Arditti also considers the aesthetics of amateur observatories fitting them in with family and neighbors and maybe disguising them as more common garden buildings if necessary Every amateur astronomer who wants a purpose built observatory and let s face it which one of them doesn t will find this book invaluable **More Small**

Astronomical Observatories Patrick Moore, 2002-08-15 **Small Astronomical Observatories** Patrick Moore, 1996-08-16

Almost every serious amateur astronomer aspires to have his or her own observatory This book shows how many astronomers have built their own observatories often employing effective and sometimes ingenious improvisations to reduce the cost The book gathers together details on a wide variety of small observatories in Europe and the US accompanied by photographs and construction facts Interesting anecdotes on the trials and tribulations of the builders are also included plus helpful tips on design and construction and pitfalls to avoid **Telescopes and Techniques** C. R. Kitchin, 2012-12-06

The modern aspiring astronomer is faced with a bewildering choice of commercially produced telescopes including all the designs considered in the preceding chapter Yet only four decades ago the choice for a small telescope would have been between just a refractor and a Newtonian reflector That change has come about because of the enormous interest that has grown in astronomy since the start of the space age and with the mind boggling discoveries of the past 30 or 40 years Except for some of the very small instruments which are unfortunately often heavily promoted in general mail order catalogues camera shops and the like the optical quality of these commercially produced telescopes is almost uniformly excellent Although one product may be slightly better for some types of observation or more suited to the personal circumstances of the observer than another most of them will provide excellent observing opportunities The same general praise cannot be applied however to the mountings with which many of these telescopes are provided and those problems are covered in Chapter 6

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 eyepiece 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 Contents Introduction XI Andromeda 1 Aquarius 4 Aquila 7 Aries 9 Auriga 12 Bootes *The Future of Small Telescopes in the New Millennium* Terry D. Oswalt, 2012-12-06 The motivation for these volumes is to provide a vision for the future of small telescopes While this is an admirable task ultimately I believe that as happens all the time in science the prognostications will be overtaken by a rapidly changing scientific reality As Virginia Trimble points out in chapter 1 the kinds of big questions that face us as astronomers today are rather different than the ones that drove the construction of astronomical facilities through much of the twentieth century Right now it appears that small telescopes will not have a lot of influence in answering those questions though they will of course contribute enormously to the many issues discussed throughout the three volumes We are on the verge of opening a whole new parameter space that may revolutionize the way we think of small telescopes and their role in astronomy the domain of the rapidly variable sky While the LSST is the most prominent example it is a long way in the future Nemiroff Rafert chapter 2 consider the value of monitoring large parts of the sky on a continuous basis using technology similar to a webcam They have installed their CONCAM2 at four locations including Kitt Peak A related project built and operated by the Harvard graduate student Gaspar Bakos HAT-1 Hungarian Automated Telescope also is in operation at Kitt Peak

History of Astronomy John Lankford, 1997 First Published in 1997 Routledge is an imprint of Taylor Francis an informa company

Navigating the Night Sky Guilherme de Almeida, 2012-11-03 This book will interest anyone who marvels at the night sky and would like to learn to recognise constellations and identify the brightest stars by name Step by step the reader is guided through the knowledge needed to recognise key constellations identify stars and planets and interpret changes in the overall appearance of the sky throughout the year

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 on

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

SUPERNOVAE SEARCHES FOR SMALL OBSERVATORIES Clay Sherrod, 2018-01-12 There are thousands of college university and private modern observatories worldwide equipped with state of the art high tech equipment that only two decades ago was available to the world s largest research facilities For the advanced amateur and the university astronomy class there are research projects available in which the non professional not only can contribute real science to the body of knowledge but provide true opportunities of discovery throughout the cosmos In this Supernova Study Guide the author presents the foundation for one of the most exciting and rewarding of all research quests the search for stellar explosions in other galaxies the Supernovae one of nature s most rare events This represents the first such Guide in which the author provides 300 empirically determined galaxy targets for supernova searches and combines this vital list with the tools and techniques step by step instructions for successful supernova searches and research

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 first 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 *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 Southern Stars , 2003 *Highlights of Astronomy*,

Volume 11B Johannes Andersen, 1999-01-31 Since 1967 the main scientific events of the General Assemblies of the International Astronomical Union have been published in the separate series Highlights of Astronomy The present Volume 11 presents the major scientific presentations made at the XXIIIrd General Assembly August 18 30 1997 in Kyoto Japan The two volumes 11A B contain the texts of the three Invited Discourses as well as the proceedings or extended summaries of the 21 Joint Discussions and two Special Sessions held during the General Assembly 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 *Making Beautiful Deep-Sky Images* Greg Parker, 2007-09-20 This book is based around the author's beautiful

and sometimes awe inspiring color images and mosaics of deep sky objects The book describes how similar Hubble class images can be created by amateur astronomers in their back garden using commercially available telescopes and CCD cameras Subsequent processing and image enhancement in the electronic darkroom is covered in detail as well A range of telescopes and equipment is considered from the author's 11 inch with Hyperstar camera down to more affordable instruments Appendices provide links to free software not available from a single source and are themselves an invaluable resource **The Night Sky Companion** Tammy Plotner, 2009-02-28 T Plotner The Night Sky Companion DOI 10.1007/978

0-387-79509-6_1 1 Springer Science Business Media LLC 2009 2 TheNightSkyCompanion Welcome fellowtravelertothestars Forthenextyearwewilltakeajourneytogetheracrossthenight 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 science to learn You'll 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 that can generate them. They give object positions in great detail and most have a key of Greek letters to help you understand star hop instructions. **Boys' Life**, 1976-09 Boys Life is the official youth magazine for the Boy Scouts of America. Published since 1911 it contains a proven mix of news, nature, sports, history, fiction, science, comics, and Scouting.

The NexStar User's Guide Michael Swanson, 2012-12-06 Michael Swanson's online discussions with literally thousands of NexStar owners made it clear that there was a desperate need for a book such as this one that provides a complete, detailed guide to buying, using, and maintaining NexStar telescopes. Although this book is highly comprehensive, it is suitable for beginners; there is a chapter on Astronomy Basics, and experts alike. Celestron's NexStar telescopes were introduced in 1999, beginning with their first computer-controlled go-to model, a 5-inch. More models appeared in quick succession, and Celestron's new range made it one of the two dominant manufacturers of affordable go-to telescopes.

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