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# Real Astronomy With Small Telescopes Step By Step Activities For Discovery The Patrick Moore Practical Astronomy Series

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Up to 5-inch, 125mm

Stargazing with Binoculars and Small Telescopes

Deep-sky Observing with Small Telescopes

How to Study the Stars, Astronomy With Small Telescopes and the Naked Eye and Notes on Celestial Photography, by L. Rudaux. Tr. by A.H. Keane

The Amateur Astronomer

Astronomy with Small Telescopes and the Naked Eye and Notes on Celestial Photography

Astronomy with a Budget Telescope

Twenty-Five Astronomical Observations That Changed the World

An Easy Introduction to the Constellations

Illustrated Dictionary of Practical Astronomy

A Guide to Collecting, Restoring, and Using Telescopes of Yesteryear

An Introduction to Practical Astronomy

Seeing Stars

See It with a Small Telescope

Volume I - Perceptions, Productivities, and Policies Volume II - The Telescopes We Use Volume III - Science in the Shadows of Giants

More Small Astronomical Observatories

A History of Visual Observing from Harriot to Moore

A Constellation Focused Approach

The Casual Sky Observer's Guide

Video Astronomy on the Go

Exploring the Moon Through Binoculars and Small Telescopes

The Future of Small Telescopes in the New Millennium

An Introduction to Practical Astronomy

Go-To Telescopes Under Suburban Skies

Astronomy with a Home Telescope: The Top 50 Celestial Bodies to Discover in the Night Sky

A Guide and Reference

15 Years of Discovery

Classic Telescopes

The Night Sky Through Small Telescopes

Telescopes and Techniques

50 Things to See with a Small Telescope

Astronomy with Small Telescopes  
Using Video Cameras With Small Telescopes  
50 Things to See with a Telescope - Kids  
Hubble  
Real Astronomy with Small Telescopes  
Observing the Messier Objects with a Small Telescope  
A young stargazer's guide  
Grab 'n' Go Astronomy

*Real Astronomy With  
Small Telescopes Step  
By Step Activities For  
Discovery The Patrick  
Moore Practical  
Astronomy Series*

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## **KENDAL GLOVER**

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Up to 5-inch, 125mm Createspace  
Independent Publishing Platform  
This three-volume set details the  
essential roles that small telescopes  
should play in 21st century science and  
how their future productivity can be  
maximized. Over 70 international  
experts have created a definitive  
reference on the present and future of  
"big science with small telescopes".  
*Stargazing with Binoculars and Small  
Telescopes* Taylor & Francis US  
This entertaining text 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. Its  
a fun read, too. Almost every amateur  
astronomer dreams of having a fixed  
observatory - this provides ideas and  
constructional details. Ideas from around  
the world. Written for a broad audience,  
including non-astronomers.

**Deep-sky Observing with Small  
Telescopes** Springer Science &  
Business Media  
Real Astronomy with Small  
Telescopes Step-by-Step Activities for  
Discovery Springer Science & Business

## Media

How to Study the Stars, Astronomy With  
Small Telescopes and the Naked Eye and  
Notes on Celestial Photography, by L.  
Rudaux. Tr. by A.H. Keane Read  
Publishing

This title details the essential roles that  
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have created a reference on the future  
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national facilities and their omission  
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the oft-lamented demise of the small  
telescope has been greatly exaggerated.  
In fact, the future of these workhorses of  
astronomy will be brighter than ever if  
creative steps are taken now. This three-  
volume set defines essential roles that  
small telescopes should play in 21st  
century science and the ways in which a  
productive future for them can be  
realized. A wide cross-section of the  
astronomical community has contributed  
to a definitive assessment of the present  
and a vision for the future. volume one  
of this three-volume set examines the  
public's and the astronomical  
communities' own perceptions and  
misconceptions of small telescope  
productivity. These shape the future  
scientific research that will be done with  
telescopes smaller than 4-m in aperture  
and the number of astronomers that will

have access to them.

*The Amateur Astronomer* Springer Science & Business Media  
*Observing the Messier Objects with a Small Telescope* contains descriptions and photographs of the 103 Messier objects, with instructions on how to find them without a computerized telescope or even setting circles. The photographs show how the objects appear through a 127mm Maksutov (and other instruments, where applicable). The visual appearance of a Messier object is often very different from what can be imaged with the same telescope, and a special feature of this book is that it shows what you can see with a small telescope. It will also contain binocular descriptions of some objects. Messier published the final version of his catalog in 1781 (it contains 103 different objects), a catalog so good that it is still in common use today, well over two centuries later. In making a catalog of all the 'fixed' deep-sky objects that observers might confuse with comets, Messier had succeeded in listing all the major interesting deep-sky objects that today are targets for amateur astronomers. Messier's telescope (thought to be a 4-inch) was, by today's amateur standards, small. It also had rather poor optics by modern standards. Thus - and despite the fact that he was a master observer - all the things Messier saw can be found and observed by any observer using a commercial 127 mm (5-inch) telescope. *Observing the Messier Objects with a Small Telescope* lets the reader follow in Messier's footsteps by observing the Messier objects more or less as the great man saw them himself!

**Astronomy with Small Telescopes and the Naked Eye and Notes on Celestial Photography** Springer Science & Business Media

"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 with a Budget Telescope](#)  
Springer

See What's Out There To experience the greatest show on Earth, all you have to do is look up. Whether you're stargazing from a bustling city or a small-town backyard, *Astronomy with a Home Telescope* helps you deepen your appreciation of the diverse, dazzling constellations--with either a home telescope or a pair of binoculars. Ideal for budding astronomers to astronomy buffs, *Astronomy with a Home Telescope* provides the origin and history behind the celestial bodies and how they came to be in space. Featuring full-color photos, easy-to-follow chapters, and helpful resources, this introductory guide will deepen every astronomy enthusiast's know-how of the night sky. Get set for stargazing, with: Informative profiles of the 50 most common astronomy objects, from the Moon to Mars to Venus, plus fun astronomy pop culture references A double-page spread featuring a clear schedule of solar and lunar eclipses Budget-friendly tips for viewing with the naked eye or binoculars Expert tips for cleaning and maintaining low- or high-powered telescopes Expand your horizons. *Astronomy with a Home Telescope* is the ideal companion for exploring the cosmos.

[Twenty-Five Astronomical Observations That Changed the World](#)  
Springer  
Science & Business Media

This title details the essential roles that small telescopes should play in 21st century science and how their future

productivity can be maximized. Over 70 experts from all corners of the international astronomical community have created a reference on the future of big science with small telescopes. at national facilities and their omission from national science priority studies, the oft-lamented demise of the small telescope has been greatly exaggerated. In fact, the future of these workhorses of astronomy will be brighter than ever if creative steps are taken now. This three-volume set defines essential roles that small telescopes should play in 21st century science and the ways in which a productive future for them can be realized. A wide cross-section of the astronomical community has contributed to a definitive assessment of the present and a vision for the future. radio- and space-based facilities face problems in scientific prioritization and funding. It highlights how current small facilities are evolving to meet the scientific priorities and economical realities of the 21st century through standardization of instrumentation, use of off-the-shelf technology, specialization, optical improvements, new modes of scheduling, automation, and internet access.

[An Easy Introduction to the Constellations](#)  
Springer Science & Business Media

"Telescopes and Techniques" has proved itself in its first edition, having become probably one of the most widely used astronomy texts, both for numerate amateur astronomers and for astronomy and astrophysics undergraduates. The first and second editions of the book were widely used as set texts for introductory practical astronomy courses in many universities. This book guides the reader through the mathematics, physics and practical techniques needed

to use telescopes (from small amateur models to the larger instruments installed in many colleges) and to observe objects in the sky. Mathematics to around Advanced Placement standard (US) or A level (UK) is assumed, although High School Diploma (US) or GCSE-level (UK) mathematics plus some basic trigonometry will suffice most of the time. Most of the physics and engineering involved is described fully and requires no prior knowledge or experience. This is a 'how to' book that provides the knowledge and background required to understand how and why telescopes work. Equipped with the techniques discussed in this book, the observer will be able to operate with confidence his or her telescope and to optimize its performance for a particular purpose. In principle the observer could calculate his or her own predictions of planetary positions (ephemerides), but more realistically the observer will be able to understand the published data lists properly instead of just treating them as 'recipes.' When the observer has obtained measurements, he/she will be able to analyze them in a scientific manner and to understand the significance and meaning of the results. "Telescopes and Techniques, 3rd Edition" fills a niche at the start of an undergraduate astronomer's university studies, as shown by it having been widely adopted as a set textbook. This third edition is now needed to update its material with the many new observing developments and study areas that have come into prominence since it was published. The book concentrates on the knowledge needed to understand how small(ish) optical telescopes function, their main designs and how to set them up, plus introducing the reader to the many ways in which objects in the sky

change their positions and how they may be observed. Both visual and electronic imaging techniques are covered, together with an introduction to how data (measurements) should be processed and analyzed. A simple introduction to radio telescopes is also included. Brief coverage of the most advanced topics of photometry and spectroscopy are included, but mainly to enable the reader to see some of the developments possible from the basic observing techniques covered in the main parts of the book.

Callisto Media Inc.

\*\*\*This book includes both The Easy Guide to the Night Sky and Easy Things to See With a Small Telescope in a single volume - save 33% by buying one title instead of two!\*\*\* Written for the amateur astronomer who wants to discover more in the night sky, this book explores the constellations, reveals many of the highlights visible with just your eyes and binoculars and includes over sixty easy-to-find sights for small telescopes. Highlights include: \* The myths and legends associated with the stars \* Bright stars and multiple stars \* Star clusters \* Nebulae \* Galaxies Each constellation has its own star chart and almost all are accompanied by depictions of the highlights and binocular views of the best objects. For the small telescope sights, each object has its own page which includes a map, a view of the area through your finderscope and a depiction of the object through the eyepiece. There's also a realistic description of every object based upon the author's own notes written over years of observations, useful tips and tricks designed to make your start in astronomy easier and pages to record your observations. Whether you're new to astronomy or are an

experienced stargazer simply looking to learn more about the constellations, this book is an invaluable guide to the night sky and the sights to be found there. Praise for other books by Richard J. Bartlett: "Would recommend, nicely laid out and easy to follow sky guide. Sensible and clear advice. I have a small scope and this books helped me enjoy it much more." by Dan M., on January 30, 2016 reviewing "Easy Things to See With a Small Telescope" "This is my third book from Mr. Bartlett and this one is as good as the others. I recommend it to all the beginners in my astronomy club." By Darren C. Bly on August 15, 2015 reviewing "2016: The Night Sky Sights" "Lots of wonderful information. A great reference guide and easy to follow. Every star gazer should have one with them" - By janine on November 18, 2015 reviewing "2015 An Astronomical Year" "This is a superb book, well laid out and easy to follow even if you are a complete novice or keen astronomer." by mr Fletcher on October 26, 2014 reviewing "The Astronomical Almanac, 2015-2019" *Illustrated Dictionary of Practical Astronomy* Springer Science & Business Media

Classic telescopes are of interest to amateur astronomers for a variety of reasons. There are the dedicated collectors, but there are also many amateurs who love the nostalgia they inspire. These telescopes "feel" different from any contemporary telescope and perhaps have a unique ability to reconnect the owner to a bygone age of craftsmanship. This book takes a look at traditional telescopes built by the great instrument makers of the 18th and 19th centuries, particularly the dynastic telescope makers, including Dollond, Alvan Clark, Thomas Cooke & Sons, and Carl Zeiss. Also included are lesser

luminaries such as John Brashear, John Calver, William Wray, Henry Fitz, and William Henry Mogyey. 'Classic Telescopes' covers the key features of the telescopes designed by these manufacturers, and shows how a heady combination of market trends, instrument condition, and pedigree will dictate their prices at auction. 'Classic Telescopes' also shows the reader how to find real bargains! Interviews with top classic telescope collectors (and users) provide the best tips of prospecting for a genuine acquisition.

*A Guide to Collecting, Restoring, and Using Telescopes of Yesteryear* Springer Science & Business Media

This book demonstrates the use of an 80mm refractor and shows how it can be used as a real scientific instrument. The author is an experienced small telescope user and an astronomy educator, and he provides step-by-step instructions for numerous scientific activities. Users will find many activities and projects suitable for an 80mm refractor or 90mm reflector or Maksutov that have not been published elsewhere. Emphasis is on measurement and discovery activities rather than on casual observing. This book will provide amateur observers with the knowledge and skill that will help them make genuine contributions to the field of astronomy.

*An Introduction to Practical Astronomy* Springer Science & Business Media

A compact instructive guide to what one can see in the sky using a telescope.

**Seeing Stars** Springer Science & Business Media

Sir Patrick Moore, CBE, FRS has long been the scourge of those people selling low-cost astronomical telescopes via mail-order catalogues and non-specialist stores. Ten years ago the quality was appalling and disappointment would



have been almost guaranteed - but times have changed. The first part of the book provides reports on some available models along with detailed and essential hints and tips about what to look for when buying. The second part describes how best to use the telescope, which celestial objects to observe (with full-page star charts to help find them), what you can expect to see, and how to take and even computer enhance astronomical photographs. -Explains what to look for when you buy a low-cost telescope. -Lists and describes the best celestial objects to observe. -Includes a detailed full-page star chart for every object listed, showing where to find it. - Illustrates what you can expect to see. - Includes a section on how to photograph and computer-enhance astronomical images. -Full colour throughout.

*See It with a Small Telescope* Springer Science & Business Media

Small telescopes, whether simple beginners' telescopes or refined computer-controlled instruments, are gaining popularity fast as technology improves and public interest increases. In this book the author has brought together the experience of small telescope users to provide an insightful look into just what is possible. It is written for newcomers to astronomy and experts. Topics covered include: refractors, reflectors, advanced catadioptric telescopes, and a simple radio telescope. Almost everyone with an interest in practical astronomy will want this book.

*Volume I - Perceptions, Productivities, and Policies* *Volume II - The Telescopes We Use* *Volume III - Science in the Shadows of Giants* Springer Science & Business Media

This 2000 Edition of Sir Patrick Moore's classic book has been completely

revised in the light of changes in technology. Not only do these changes include commercially available astronomical telescopes and software, but also what we know and understand about the universe. There are many new photographs and illustrations. Packs a great deal of valuable information into appendices which make up almost half the book. These are hugely comprehensive and provide hints and tips, as well as data (year 2000 onwards) for pretty well every aspect of amateur astronomy. This is probably the only book in which all this information is collected in one place.

### **More Small Astronomical**

**Observatories** Courier Corporation  
1,001 Celestial Wonders is a guide to the night sky's brightest and most fascinating objects. Each target is accessible to amateur astronomers using medium-sized telescopes from a dark site. In fact, many are so bright they remain visible under moderate light pollution, as from the outskirts of a city or the suburbs of a town. The book provides a chronological target list, making it easy to use. No matter what night you choose, this book will show you many of the most memorable objects to observe, whether you are using a small telescope or even binoculars, or an instrument of larger aperture. This is far more than just a list of interesting objects. It is structured so that objects of various observing difficulty are included, which will help readers become better observers, both encouraging beginners and challenging long-time amateur astronomers. This book is designed to be easy-to-use at the telescope, and observers will appreciate each object's standardized layout and the book's chronological organization. Finally, many amateur

astronomers function best when presented with a list! Even the Meade Autostar® controller features a 'best tonight' list (although the list is far less comprehensive and detailed than the catalog provided in this book), a feature that has proved extremely popular. 1,001 Celestial Wonders offers a life-list of objects any observer would be proud to complete.

**A History of Visual Observing from Harriot to Moore** Springer Science & Business Media

The Casual Sky Observer's Pocket Guide offers an observing program for occasional amateur observers looking for some quick, fun astronomy adventures under the stars. In the real world, where time for observing is limited, the weather is seldom perfect, and expensive equipment is not an option, amateur astronomy may not be seen as a worthwhile activity. However, portable and quick-to-set-up instruments are available. A pair of binoculars or a small telescope fills the bill. And the way to make the most of these instruments is described in the Casual Sky Observer's Pocket Guide. Not only does the book

feature the best and brightest showpieces of the heavens; it also provides a great deal of physical and environmental data as well as lots of fascinating information and beautiful illustrations that provide a unique perspective on the many treasures within and beyond our home galaxy, the Milky Way--stars, star clusters, other galaxies, and nebulae, all within reach of binoculars or a small telescope.

[A Constellation Focused Approach](#)

Springer Science & Business Media  
This essential and highly-illustrated guide is for anyone taking their first steps in observational astronomy. It shows what you can expect to see, helping you get the most from your equipment. This unique book gives amateurs the guidance and assurance they need to become more proficient observers.

**The Casual Sky Observer's Guide**

Springer Science & Business Media  
DIVinformative, profusely illustrated guide to locating and identifying craters, rills, seas, mountains, other lunar features. Newly revised and updated with special section of new photos. Over 100 photos and diagrams. /div

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- [It Starts With Us: A Novel \(2\) \(it Ends With Us\)](#)
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