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Step By Step Activities For Discovery The Patrick  
Moore Practical Astronomy Series

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

Specifically written with the beginner in mind, this book highlights over sixty objects easily found and observed in the night sky. Objects such as: \* Stunning multiple stars \* Star clusters \* Nebulae \* And the Andromeda Galaxy! 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. Additionally, there are useful tips and tricks designed to make your start in astronomy easier and pages to record your observations. If you're new to astronomy and own a small telescope, this book is an invaluable introduction to the night sky. Praise for other books by Richard J. Bartlett: "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" "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

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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

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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.

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

An easy-to-read guide to navigating around the sky using a small telescope. Covering all the basic topics - telescopes, optics, positions and motion, observing, and instruments - Telescopes and Techniques has been designed as an introduction for anyone wanting a firm grounding in the essentials of astronomy. What distinguishes this book from other "popular" works on astronomy is its impeccable scientific background: it has been developed from the author's many years of experience in teaching undergraduates.

This volume is the proceedings of IAU Symposium No. 118 on "Instrumentation. and Research Programmes for Small Telescopes", where small telescopes were defined as those ground-based instruments with apertures less than 1.5m. The scientific goal of the symposium was to emphasise research programmes which were more suited to smaller telescopes, on which frequent regular observations can be made. A wide variety of topics on instrumentation, photometry, spectroscopy and polarimetry of objects in the solar system to extragalactic systems were discussed. Each of the four

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scientific days of the symposium comprised a number of invited review papers, contributed oral papers and discussion sessions devoted purely to the large number (~4) of poster papers. An introductory paper on the research potential of small telescopes sets the scene for the symposium. The proceedings have then been divided into three sections. Section I: Telescopes and instrumentation; Section II: Photometric research programmes; Section III: Spectroscopic research programmes. The diversity of topics within each of these sections indicated the extent to which small telescopes have (and can) contribute greatly to astronomical research. Dr J.A. Graham's summary of the symposium, which illustrates the opportunities available with small telescopes, concludes these proceedings. As in all symposia, the importance of the discussion following each paper was realised. The discussion was recorded on tape (and wherever possible on questions and answer sheets), transcribed and then edited.

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".

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

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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. 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

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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.

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.

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. What I aim to do, in this book, is to go through a complete year and point out some special items of interest for each night. It may be a double star, a variable star or a nebula; it may be a planet, or even the Moon in some particular aspect -

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there is plenty of variety. (Anyone unfamiliar with astronomical terms should consult the Glossary at the end of this book. ) Let it be said at once that you do not need a large and expensive telescope. A surprising amount can be seen with the naked eye, and binoculars give increased range; indeed, it is probably fair to say that good binoculars are ideal for the beginner, and are far better than very small telescopes. Telescopes are of two types: refractors, and reflectors. A refractor collects its light by means of a glass lens known as an object-glass (OG); the light passes down the telescope tube and is brought to focus, where an image is formed and is then magnified by a second lens, termed an eyepiece. Astronomers' Universe Series is a new series aimed at active amateur astronomers but is appropriate to a wider audience of astronomically-informed readers. The book provides an up-to-date account of active galaxies. Lists of such objects and their visual and imaged appearance in commercially available telescopes are an important component of this book. The book makes sense of the chaotic and apparently innumerable types of violently active galaxies. It provides the data and teaches the skills needed for users of small telescopes to observe and image some of these "galaxies in turmoil" for themselves. John A. Read covers everything needed to identify constellations, planets, stars, galaxies, nebulae and more. Inquisitive stargazers will find planet hunting

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and star hopping easy with clearly plotted routes and images of the sky both as seen by the naked eye and detailed views from a telescope. Many fascinating cosmic objects can be easily spotted with the help of this book including beautiful Cassiopeia, regal Leo, the plentiful Kemble's Cascade, the explosive Crab Nebula, the rings of Saturn — even the moon! This easy to read, fully illustrated reference book will enrich every young person's experience of the skies above.

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

"Take the mystery and struggle out of discovering new worlds. With hands-on tips, tricks and instructions, this book allows you to unleash the full power of your small telescope and view amazing space objects right from your own backyard, including: Saturn's Rings, Jupiter's Moons, Apollo 11's Landing Site, Orion Nebula, Andromeda Galaxy, Polaris Double Star, Pegasus Globular Clusters & more.

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

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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.

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.

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.

Learn how to find and photograph 50+ objects in the night sky using a small telescope and affordable equipment! Includes the moon, the planets, the sun, nebulae, galaxies, clusters, and multiple star systems! A small telescope is a powerful

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tool... if you know how to use one. This book walks the reader through the basics of astronomy (the sun, the Earth, the moon, the planets, Kepler's laws, and more), the basic concepts behind how telescopes work (resolution, magnification, parts & accessories, limitations, and more), and how to observe various astronomical targets through a small telescope (the moon, planets, stars, clusters, galaxies, and nebulae). A brief introduction to smartphone and budget-friendly DSLR astrophotography is also included. This book will show the reader affordable ways to pursue astronomy and astrophotography. For example, the book discusses "purchasing used equipment," "what you really need to buy," "how to take astrophotographs without tracking," "how to build your own solar filter," "how to build a simple barn door mount," "how to simply build your own telescopes," and other similar topics. This book also contains a complete messier object table (object, type, season, magnitude, and size), several star/constellation maps, a few moon maps, and other similar tables and data. A great resource for any astronomer! This book is 280 pages long (6"x9") and includes author-generated images to keep the price of the book to a minimum.

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

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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!

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. 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

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that will have access to them.

Author Joseph Ashley explains video astronomy's many benefits in this comprehensive reference guide for amateurs. Video astronomy offers a wonderful way to see objects in far greater detail than is possible through an eyepiece, and the ability to use the modern, entry-level video camera to image deep space objects is a wonderful development for urban astronomers in particular, as it helps sidestep the issue of light pollution. The author addresses both the positive attributes of these cameras for deep space imaging as well as the limitations, such as amp glow. The equipment needed for imaging as well as how it is configured is identified with hook-up diagrams and photographs. Imaging techniques are discussed together with image processing (stacking and image enhancement). Video astronomy has evolved to offer great results and great ease of use, and both novices and more experienced amateurs can use this book to find the set-up that works best for them. Flexible and portable, they open up a whole new way of seeing space.

This book offers a comprehensive introductory guide to "choosing and using" a series LXD55 or LXD75 computer-controlled ("goto") telescope, containing a wealth of useful information for both beginners and more advanced practical amateur astronomers. The manufacturer's manuals are not nearly detailed enough to be of real help to beginners. No other book offers advanced techniques for more experienced LXD series users.

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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

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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.

For this ground-breaking book, Philip Pugh has assembled a team of contributors who show just how much solar observation work can be accomplished with Coronado telescopes, and explain how to get the best from these marvelous instruments. The book shows that Solar prominences, filaments, flares, sunspots, plage and active regions are all visible and can be imaged to produce spectacular solar photographs.

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.

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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.

50 Things to See with a Small Telescope explores the planets, stars, galaxies, and nebulas observed from all over the northern hemisphere. This book includes easy-to-follow star maps, and updated eclipse charts for years 2017 to 2030. With the new "telescope view" feature, you will see how objects appear when viewed through a small telescope. - Publisher's description.

From the author of the bestselling book 50 Things to See with a Small Telescope, this colorful edition explores the constellations with young readers, guiding them to dozens of galaxies, nebulae, and star clusters. Every page features a helpful "telescope view," showing exactly how objects appear through a small telescope or binoculars. While a member of the Mount Diablo Astronomical Society in California, John Read taught thousands of students how to use telescopes and explore the night sky. Now, he's sharing this knowledge with you! Even without a telescope, this introduction to the night sky is essential for every child's collection.

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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.

Amateur astronomers of all expertise from beginner to experienced will find this a thorough star cluster atlas perfect for easy use at the telescope or through binoculars. It enables practical observers to locate the approximate positions of objects in the sky, organized by constellation. This book was specifically designed as an atlas and written for easy use in field conditions. The maps are in black-and-white so that they can be read by the light of a red LED observer's reading light. The clusters and their names/numbers are printed in bold black, against a "grayed-out" background of stars and constellation figures. To be used as a self-contained

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reference, the book provides the reader with detailed and up-to-date coverage of objects visible with small-, medium-, and large-aperture telescopes, and is equally useful for simple and computer-controlled telescopes. In practice, GO-TO telescopes can usually locate clusters accurately enough to be seen in a low-magnification eyepiece, but this of course first requires that the observer knows what is visible in the sky at a given time and from a given location, so as to input a locatable object. This is where "The Observer's Guide to Star Clusters" steps in as an essential aid to finding star clusters to observe and an essential piece of equipment for all amateur astronomers.

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.

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.

Go-To Telescopes Under Suburban Skies is the first

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book specifically written for amateur astronomers who own, or who are about to purchase, a computer-controlled 'go-to' telescope. The advantage of the 'go-to' capability is enormous – the telescope can be aimed at any object in the sky with great speed and accuracy – which is why these instruments are so popular. Making the realistic assumption that the observer is using a relatively small telescope and is observing from a backyard in a suburban area, this book provides literally hundreds more targets beyond those offered by the built-in 'nightly tours' that feature on the telescope's computer tours. And instead of wasting many pages on maps and coordinates, it leads the computer to locate the targets, and so has room to suggest many more fascinating deep-sky objects and provide detailed observing lists and information about what's being viewed.

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

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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.

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

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