

Astronomy With A Budget Telescope An Introduction To Practical Observing The Patrick Moore Practical Astronomy Series

Astronomy Hacks begins the space exploration by getting you set up with the right equipment for observing and admiring the stars in an urban setting. Along for the trip are first rate tips for making most of observations. The hacks show you how to: Dark-Adapt Your Notebook Computer. Choose the Best Binocular. Clean Your Eyepieces and Lenses Safely. Upgrade Your Optical Finder. Photograph the Stars with Basic Equipment.

See What's Out There To experience the greatest show on Earth, all you have to do is look up. With a simple home telescope, an astronomy novice can see the rings of Saturn, comets, asteroids, and nebulae. But even the bravest astronomy buffs know better than to explore outer space without a guide. That's why everything you need to marvel at the stars is here in Astronomy at a Glance. Exciting profiles of 50 astronomy objects in the night sky Clear directions to locate each astronomy object with a home telescope Astronomy origin stories, scientific examples, and pop culture references Expert astronomy advice on using and cleaning your telescope Complete schedule of solar and lunar eclipses Astronomy at a Glance is the best way to discover our distant neighbors in the cosmos.

From the author of Getting Started: Long Exposure Astrophotography and the Messier Astrophotography Reference comes a book showing you how to produce wonderful astrophotos without the astronomical costs normally associated with the hobby. From a DSLR,

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to a point and shoot, and even using your phone, you can capture beautiful images of the sun, moon, clusters, galaxies and nebulae without breaking the bank. A complete image processing walkthrough is included using only freely downloadable software. Discussed inside are telescopes, adapters, do-it-yourself projects, software and processing techniques to help you photograph the skies without spending a fortune. Already have a telescope or other equipment? No problem, it will help you make the most of what you already have as well as show you what you can buy or make yourself to improve your images.

The Committee on Astronomy and Astrophysics (CAA), at its meeting on September 8, 1997, was briefed on the legislative report accompanying the bill to authorize appropriations for fiscal years 1998 and 1999 for the National Science Foundation (NSF). The report raised a number of questions about trends in support for research in astronomy and the overall robustness of the programs providing that support. At its meeting, the CAA heard the views of NSF and the National Aeronautics and Space Administration (NASA) on these issues. In consultation with the Board on Physics and Astronomy, the Space Studies Board, and representatives of NASA and NSF, the committee accepted the task of studying three of the questions raised by the House Science Committee (HSC). It was intended that the results of the study would help guide federal support of basic research for the next decade and serve as analytical input to the new 2000 decadal survey of the Astronomy and Astrophysics Survey Committee (AASC). The study would not offer specific funding recommendations, but rather would provide a background analysis of the alignment between available resources, agency priorities, and the vitality of the basic research program.

From the author of the bestselling book *50 Things to See with a Small Telescope*, this colorful

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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.

A pocket guide for hobbyists introduces basic concepts and equipment for observing cosmic objects and includes sky charts and color illustrations.

Here is a collection of easy telescope accessory projects to build on a budget, with detailed diagrams, material lists, and assembly instructions. All the projects can be made using common tools and materials available from hardware stores, and simple items found around the home.

Here are clear explanations of how to make superb astronomical deep-sky images using only a DSLR or webcam and an astronomical telescope – no expensive dedicated CCD cameras needed! The book is written for amateur astronomers interested in budget astrophotography – the deep sky, not just the Moon and planets – and for those who want to improve their imaging skills using DSLR and webcams. It is even possible to use existing (non-specialist astronomical) equipment for scientific applications such as high resolution planetary and lunar photography, astrometry, photometry, and spectroscopy. The introduction of the CCD revolutionized astrophotography. The availability of this technology to the amateur astronomy community has allowed advanced science and imaging techniques to become available to almost anyone willing to take the time to learn a few, simple techniques. Specialized cooled-

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chip CCD imagers are capable of superb results in the right hands – but they are all very expensive. If budget is important, the reader is advised on using a standard camera instead. Jensen provides techniques useful in acquiring beautiful high-quality images and high level scientific data in one accessible and easy-to-read book. It introduces techniques that will allow the reader to use more economical DSLR cameras – that are of course also used for day-to-day photography – to produce images and data of high quality, without a large cash investment.

Astronomy with a Budget Telescope, 2nd Edition is a complete introduction to buying and using a low-cost amateur astronomical telescope. It provides essential hints and tips about what to look for when buying on a budget - the best are now excellent value, but they all lack an astronomer's advice about setting them up and using them. Astronomy with a Budget Telescope was first published in 2003, since then technology has moved on substantially. The main factors are first the availability of fairly inexpensive computer-controlled "go-to" telescopes which after setting up can automatically locate any celestial objects with reasonable accuracy. Second, digital cameras have now almost completely displaced "wet" film cameras, and some of them are particularly well-suited to astronomical use. Third, prices are down and quality is up! This new edition is revised and extended to include using a low-cost "go-to" telescope - there are various pitfalls to be avoided - and how this class of instrument can make amateur astronomy more accessible to those with limited time at their disposal. It also discusses the new breed of mid-range digital cameras that include powerful on-board

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processing and image enhancement software that used to be available only to people with advanced astronomical CCD cameras. Finally, there are detailed reviews and test reports on some of the budget telescopes that are available on Main Street and by mail order.

Astronomy is still one of the few sciences where the amateur can play a useful role and may even make important discoveries. This is the ideal book for someone who would like to take a real interest in astronomy, but does not know where to start.

Amateur astronomers have to start somewhere. Most begin by buying a modest astronomical telescope and getting to know the night sky. After a while, many want to move on to the next stage, but this can be problematic. The magazines advertise a mass of commercially-made equipment – some of it very expensive – which can represent a major financial outlay. The trick is to choose the right equipment, and then use it to its fullest extent. *Observing Skills: The Science and Art of using Astronomical Telescopes* provides the required information. First, it explains how to get the best from entry-level equipment (that upgrade may not even be needed for a year or two!).

Second, it explains how to select equipment that is at the 'next level', and describes how use more advanced telescopes and accessories. The book is organized according to observational targets, and although it concentrates mainly on visual observing, it concludes with a section on imaging and the equipment currently available – from regular digital cameras, through webcams, to specialized chilled-chip CCD cameras.

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Observing Skills: The Science and Art of using Astronomical Telescopes is the perfect follow-up to Moore and Watson: Astronomy with a Budget Telescope and Tonkin: AstroFAQs . It neatly fills the gap between these introductory books and the more advanced books in Springer's Practical Astronomy list.

In 1609 Galileo first used his telescope to kick start the science of observational astronomy - an event that proved to be of enormous historic, scientific, and cultural importance. Galileo and 400 Years of Telescopic Astronomy will feature the life and achievements of Galileo, around which has pivoted the story of four centuries of telescopic astronomy. The book will detail how astronomy has progressed through four centuries and contain glimpses of future space research and astronomy goals.

Uniquely, interwoven with the text will be a range of practical projects for backyard astronomers in which to participate, projects that serve to illustrate many of Galileo's scientific discoveries.

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

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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.

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

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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!

Serves as a useful reference guide to stargazers around the world.

Quantum physics is the most fundamental -- but also the most baffling -- branch of science. Allowing for dead-and-alive cats, teleportation, antimatter, and parallel universes, as well as underpinning all of our digital technology, it's as important as it is mind-bending. This clear and compact book demystifies the strange and beautiful quantum world, and hence the nature of reality itself. Contents include: Schrodinger's cat, inside the atom, the particle zoo, the Higgs boson, Heisenberg's uncertainty principle, God playing dice, relativity, the Big Bang, dark energy and matter, black holes, the fate of the Universe, the Theory of Everything, quantum gravity, string theory, the multiverse, instant communication, quantum computing and cryptography, superconductivity, quantum biology, quantum consciousness, and much more. Written as a series of mini essays with 200 simple diagrams to help understanding, there can be no easier guide to this notoriously confusing subject. At last it's possible for non-specialists to understand quantum theory and its central role in the birth of the universe and the very existence of life.

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There are many books covering different facets of astrophotography, but few of them contain all the necessary steps for beginners in one accessible place.

Astrophotography is Easy! fills that void, serving as a guide to anybody interested in the subject but starting totally from scratch. Assuming no prior experience, the author runs through the basics for how to take astrophotos using just a camera—including cell phones and tablets—as well as a telescope and more sophisticated equipment. The book includes proven techniques, checklists, safety guidelines, troubleshooting tips, and more. Each chapter builds upon the last, allowing readers to master basic techniques before moving on to more challenging material. Also included is a comprehensive list of additional books and resources on a variety of topics so readers can continue expanding their skills. *Astrophotography Is Easy!* doesn't simply teach you the basic skills for becoming an astrophotographer: it provides you with the foundations you will need for a lifelong pursuit.

This is the must-have guide for all amateur astronomers who double as makers, doers, tinkerers, problem-solvers, and inventors. In a world where an amateur astronomy habit can easily run into the many thousands of dollars, it is still possible for practitioners to get high-quality results and equipment on a budget by utilizing DIY techniques.

Surprisingly, it's not that hard to modify existing equipment to get new and improved usability from older or outdated technology, creating an end result that can outshine the pricey higher-end tools. All it takes is some elbow grease, a creative and open mind

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and the help of Chung's hard-won knowledge on building and modifying telescopes and cameras. With this book, it is possible for readers to improve their craft, making their equipment more user friendly. The tools are at hand, and the advice on how to do it is here. Readers will discover a comprehensive presentation of astronomical projects that any amateur on any budget can replicate – projects that utilize leading edge technology and techniques sure to invigorate the experts and elevate the less experienced. As the "maker" community continues to expand, it has wonderful things to offer amateur astronomers with a willingness to get their hands dirty. Tweaking observing and imaging equipment so that it serves a custom purpose can take your observing options to the next level, while being fun to boot.

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

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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.

Astronomy enthusiasts will all appreciate the detailed yet easily-assimilated description of star clusters, how they were formed as our Milky Way galaxy, how they evolved, and how they are classified. The latest research has revealed a vast amount of fascinating information about the clusters, along with some spectacular photographs. Modern commercially-made telescopes enable amateur astronomers to see a surprising amount of detail, and to record – using CCD cameras, video, webcams or even film – some remarkably beautiful and detailed images. Contained here also is detailed information on using refractors, reflectors, and, of course, Meade and Celestron's ubiquitous range of computer-controlled SCT telescopes.

Atlas over de vigtigste galakser og nebuloser, som kan ses i teleskop af amatører.

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 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

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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.

See the full beauty of our night sky revealed as never before in over 200 photographs from around the world. Bringing together the images of over 40 photographers across 25 countries, be astounded by the lights of the night sky in some of the darkest places on earth; discover the beauty of galaxies, planets, and stars; view great celestial events; and see some of the world's most important landmarks against the backdrop of an incredible nightscape. Babak Tafreshi, founder of the international organization The World at Night, has curated the images in this collection—many of them previously unseen—to reveal the true splendor of the sky at night. A specialist guide to night-sky

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photography will help you capture your own gorgeous images of the heavens. Commentary on the science, astronomy, and photography accompany stunning images organized by theme: Symbols of all nations and religions embraced by one sky of endless beauties UNESCO World Heritage Sites at night The Universe revealed through constellations, sky motions, atmospheric phenomenon, Aurora, and other wonders Images highlighting the beauty of dark skies away from light-polluted urban areas Celestial events, from great comets to spectacular eclipses Astro-tourism destinations, like ancient astronomical monuments and modern observatories The IceCube Observatory has been called the “weirdest” of the seven wonders of modern astronomy by Scientific American. In The Telescope in the Ice, Mark Bowen tells the amazing story of the people who built the instrument and the science involved. Located near the U. S. Amundsen-Scott Research Station at the geographic South Pole, IceCube is unlike most telescopes in that it is not designed to detect light. It employs a cubic kilometer of diamond-clear ice, more than a mile beneath the surface, to detect an elementary particle known as the neutrino. In 2010, it detected the first extraterrestrial high-energy neutrinos and thus gave birth to a new field of astronomy. IceCube is also the largest particle physics detector ever built. Its scientific goals span not only astrophysics and cosmology but also pure particle physics. And since the neutrino is one of the strangest and least understood of the known elementary particles, this is fertile ground. Neutrino physics is perhaps the most active field in particle physics

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today, and IceCube is at the forefront. The Telescope in the Ice is, ultimately, a book about people and the thrill of the chase: the struggle to understand the neutrino and the pioneers and inventors of neutrino astronomy. It is a success story.

A guide to viewing stars, the moon, planets, meteors, comets, and aurora through binoculars. Features a foreword by renowned astronomer and writer David Levy. Includes a complete guide to current binocular brands and models and explains what to look for in each season. 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.

How do I get started in astronomy? Should I buy binoculars or a telescope? What can I expect to see? This wonderful beginners' guide to astronomy covers all the information you need to get started. This second edition has been fully updated and now includes new illustrations, the latest astronomy equipment and celestial events through to the year 2025. It starts by explaining the basic techniques and equipment you need for exploring the skies before taking you on a tour of the night sky, covering the Moon, Sun, stars, planets and more. Any necessary technical terms are clearly explained. The author gives sound advice on using and purchasing affordable binoculars, telescopes and accessories, and the book is illustrated with photos taken by the author, showing how objects in the sky actually look through modest amateur equipment. It contains a comprehensive glossary and references to further astronomy resources and websites.

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Discover the amazing wonders of the night sky with this expanded edition to 100 Things to See in the Night Sky, perfect for every amateur stargazer and armchair astronomer! Keep your feet on the ground and experience the night sky to the fullest by exploring planets, satellites, and constellations with this all-inclusive reference guide to space. 100 Things to See in the Night Sky, Expanded Edition is full of information on the many amazing things you can see with a telescope, or just your naked eye! From shooting stars to constellations and planets to satellites, this book gives you a clear picture of what you can see on any given night. Learn about the celestial bodies that have captured people's imaginations for centuries, with specific facts alongside traditional myths and beautifully illustrated photographs and star charts that will help you know where to look for the best view. With this illuminating guide, you'll enjoy hours of stargazing, whether you're travelling, camping, sitting in your back yard, or simply flipping through the beautiful images in this book.

The touchstone for contemporary stargazers. This classic, groundbreaking guide has been the go-to field guide for both beginning and experienced amateur astronomers for nearly 30 years. The fourth edition brings Terence Dickinson and Alan Dyer's invaluable manual completely up-to-date. Setting a new standard for astronomy guides, it will serve as the touchstone for the next generation of stargazers as well as longtime devotees. Technology and astronomical understanding are evolving at a breathtaking clip, and to reflect the latest information about observing techniques and equipment, this massively revised and expanded edition has been completely rebuilt (an additional 48 pages brings the page count to 416). Illustrated throughout with all-new photographs and star charts, this edition boasts a refreshed design and features five brand-new chapters, including three essential essays on binocular, telescope and Moon

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tours by renowned astronomy writer Ken Hewitt-White. With new content on naked-eye sky sights, LED lighting technology, WiFi-enabled telescopes and the latest advances in binoculars, telescopes and other astronomical gear, the fourth edition of The Backyard Astronomer's Guide is sure to become an indispensable reference for all levels of stargazers. New techniques for observing the Sun, the Moon and solar and lunar eclipses are an especially timely addition, given the upcoming solar eclipses in 2023 and 2024. Rounding out these impressive offerings are new sections on dark sky reserves, astro-tourism, modern astrophotography and cellphone astrophotography, making this book an enduring must-have guide for anyone looking to improve his or her astronomical viewing experience. The Backyard Astronomer's Guide also features a foreword by Dr. Sara Seager, a Canadian-American astrophysicist and planetary scientist at the Massachusetts Institute of Technology and an internationally recognized expert in the search for exoplanets.

Notebook Planner Telescope Space Love Astronomy Science Nerd Gift. This Notebook Planner Telescope Space Love Astronomy Science Nerd Gift is a minimalistic and beautifully designed Notebook perfect for writing notes and jotting down thoughts.. This Notebook Planner Telescope Space Love Astronomy Science Nerd Gift gifts for people who love cat items, reading, professor gift, crazy cat lady gift, librarian gift, teacher gift, book lover present, kitten lovers, English teacher, bibliophile gift, book items, reading present, book theme gift give this notebook planner as a great present for anniversary, thanksgiving, christmas, graduation, birthday.

Astronomers and astrophysicists are making revolutionary advances in our understanding of planets, stars, galaxies, and even the structure of the universe itself. The Decade of Discovery

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presents a survey of this exciting field of science and offers a prioritized agenda for space- and ground-based research into the twenty-first century. The book presents specific recommendations, programs, and expenditure levels to meet the needs of the astronomy and astrophysics communities. Accessible to the interested lay reader, the book explores: The technological investments needed for instruments that will be built in the next century. The importance of the computer revolution to all aspects of astronomical research. The potential usefulness of the moon as an observatory site. Policy issues relevant to the funding of astronomy and the execution of astronomical projects. The Decade of Discovery will prove valuable to science policymakers, research administrators, scientists, and students in the physical sciences, and interested lay readers. Alternate Selection, Astronomy Book Club

This book is uniquely about the relationship between the optical telescope and astronomy as they developed together. It covers the time between the telescope's pivotal invention in the 1600's up to the modern era of space-based telescopes. Over the intervening centuries, there were huge improvements in the optical resolution of telescopes, along with changes in their positioning and nature of application that forever altered the course of astronomy. For a long time, the field was an exclusive club for self-motivated stargazers who could afford to build their own telescopes. Many of these leisure-time scholars left their mark by virtue of their meticulous observations and record keeping. Although they would now be considered amateurs, these figures and their contributions were pivotal and are covered in this book alongside professionals, for the first time giving a complete picture of the history of telescopic science.

Building an astronomical telescope offers the amateur astronomer an exciting challenge, with

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the possibility of ending up with a far bigger and better telescope than could have been afforded otherwise. In the past, the starting point has always been the grinding and polishing of at least the primary mirror, a difficult and immensely time-consuming process. But now that the Internet has brought us together in a global village, purchasing off-the-shelf goods such as parabolic mirrors, eyepieces, lenses, and telescope tubes, is possible. There are also a vast number of used mirrors and lenses out there, and it is now possible to track them down almost anywhere in the world. Online stores and auction houses have facilitated commerce regarding all sorts of useful optical components at a reasonable price. This is a book about making telescopes from available parts. It provides guidance on where to look and what to look for in selecting items useful for telescope making and explains how to assemble these components to produce an excellent instrument on a tight budget. At one time, many amateurs made their own telescopes from home-made parts. In today's rushed world, that has almost become a lost art. The Internet offers a wonderful alternative to either buying a pricey scope fully assembled or making your own from scratch.

A simple guide to the location and recognition of stars and constellations, mainly in the northern latitudes

Have Fun Exploring the Stars with Close-up Views of Space Objects Right from Your Own Backyard 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 Cluster • And much, much more!

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Astronomy with a Budget Telescope Springer Science & Business Media

You do not need an expensive telescope for stargazing: You can explore the Milky Way and even observe the next galaxies with a simple pair of binoculars! This book shows you many of the most interesting celestial targets for binoculars for each season of the year. All you need is a dark observation site. If you don't have a pair of binoculars yet, you will also find tips for buying and testing. There is also a description of the different classes of objects for beginners. You can easily explore the night sky with this book - all you need is a pair of binoculars and curiosity! This is the English edition of *Astronomie mit dem Fernglas*.

This book provides an introduction to the design of a variety of telescopes, mounts, and drives suitable for the home-constructor. Projects include instruments that range from a shoestring budget to specialist devices that are not commercially available. The skill level of each project is indicated and advice is provided as to what is sensible to construct, given what is commercially available. Hints and tips are included, as well as listings of reputable mail order sources of materials and components.

Driven by discoveries, and enabled by leaps in technology and imagination, our understanding of the universe has changed dramatically during the course of the last few decades. The fields of astronomy and astrophysics are making new connections to physics, chemistry, biology, and computer science. Based on a broad and comprehensive survey of scientific opportunities, infrastructure, and organization in a national and international context, *New Worlds, New Horizons in Astronomy and Astrophysics* outlines a plan for ground- and space- based astronomy and astrophysics for the decade of the 2010's. Realizing these scientific opportunities is contingent upon maintaining and strengthening the foundations of the research

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enterprise including technological development, theory, computation and data handling, laboratory experiments, and human resources. *New Worlds, New Horizons in Astronomy and Astrophysics* proposes enhancing innovative but moderate-cost programs in space and on the ground that will enable the community to respond rapidly and flexibly to new scientific discoveries. The book recommends beginning construction on survey telescopes in space and on the ground to investigate the nature of dark energy, as well as the next generation of large ground-based giant optical telescopes and a new class of space-based gravitational observatory to observe the merging of distant black holes and precisely test theories of gravity. *New Worlds, New Horizons in Astronomy and Astrophysics* recommends a balanced and executable program that will support research surrounding the most profound questions about the cosmos. The discoveries ahead will facilitate the search for habitable planets, shed light on dark energy and dark matter, and aid our understanding of the history of the universe and how the earliest stars and galaxies formed. The book is a useful resource for agencies supporting the field of astronomy and astrophysics, the Congressional committees with jurisdiction over those agencies, the scientific community, and the public.

This special edition has been designed specifically for aspiring astronomers living south of the equator. This book explores the planets, stars, galaxies and nebulae observable from the southern hemisphere. Not only does this book illustrate how to observe, it also shows how each object appears through a small telescope!

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