

Amateur Telescope Making In The Internet Age Finding Parts Getting Help And More The Patrick Moore Practical Astronomy Series

Complete, detailed instructions and numerous diagrams for constructing a do-it-yourself telescope. No complicated mathematics are involved, and no prior knowledge of optics or astronomy is needed to follow the text's step-by-step directions. Contents cover, among other topics, materials and equipment; tube parts and alignment; eyepieces, and related problems; setting circles; and optical principles. 1973 ed. Appendixes. Index. 6 plates. 100 figures.

Describes different types of telescopes, explains how to set up a workshop and build an observatory, and discusses recent developments in celestial photography

Provides easy to understand information and guidelines about the design and construction of binoscopes Focusing on both homemade and commercial products, this book provides the reader with simple and straightforward information about the modelling and building of binoscopes. Binoscopes can be thought of as binoculars enlarged to the size of telescopes: essentially, a combination of the two. Constructing a binoscope is easier than most people think, but it still demands attention to detail and proper background knowledge. The author goes on to provide additional information about how to understand the products currently on the market, should the reader choose to purchase a binoscope instead of building one. Lastly, the book also compares binoscopes with telescopes in great detail, outlining the differences the reader can expect to see in the night sky from using both. The celestial views obtained with a binoscope, compared to a single telescope of the same aperture, are a very different experience and well worth the effort.

Peter Manly surveys more than 150 unusual telescopes designed by amateur and professional astronomers to suit some special need.

Provides information on amateur telescope making. Includes a photo gallery, a FAQ section, and a list of related books and vendors. Links to related sites.

Concise, highly readable book discusses the selection, set-up, and maintenance of a telescope; amateur studies of the sun; lunar topography and occultations; and more. 124 figures. 26 halftones. 37 tables.

Amateur Telescope Making Springer Science & Business Media

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

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.

This remarkable history encompasses not only the achievements of the early inventors and astronomers but also the less frequently recounted stories of the instrument makers and of the actual instruments.

A model of unsurpassed, comprehensive scholarship, this volume covers many fields, including professional and amateur astronomy. 196 black-and-white illustrations.

This book, first published in 1997, is for telescope owners wanting to improve their skills and make observations of real and lasting scientific value.

Description: This 24-photo calendar (a major and minor shot each month) features a wide range of objects and phenomena in the sky including stars, planets, and nebulae as well as historic lunar exploration photos. In addition to photos and commentary, the calendar provides monthly star charts to help observers note the night-sky changes throughout the year. Images are courtesy of Gemini Observatory, Chandra X-Ray Observatory, NASA/University of Massachusetts, D. Wang, NASA/NEAR (Near-Earth Asteroid Rendezvous mission), European Space Agency/Infrared Space Observatory Mission, CAM, ISOGAL Team, NASA/ESA, Cassini Mission, NASA, NASA/Space Telescope Science Institute, NASA/Malin Space Science Systems, and European Southern Observatory. Photos were also taken by the author and other talented stargazers. Notes: This calendar is created by Richard Berry, former editor-in-chief of Astronomy and Telescope Making magazines. Richard holds undergraduate and graduate degrees in astronomy, and now works full-time writing books about the stars. Pictured are: JAN Galaxy M74, Galactic Center in X-Rays FEB Apollo 9 Spacewalk, Asteroid Eros MAR Peering into the Pillars of Creation, Warm Dust in the Eagle Nebula APR Io over the Jovian Clouds, Jupiter Crescent with Io MAY Hubble over the Earth, Hubble Repairs JUN The Mice, The Tadpole JUL Apollo 16 at Descartes, Collecting Lunar Rock Samples AUG Starbirth in Sharpless 106, NGC 1999 SEP M63 Galaxy, Omega Nebula OCT Viking Lander 2, Mars in True Color NOV The Blue Cave, Nebula in Corona Australis DEC The Cone Nebula, Herbig-Haro Object #34

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 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.
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