

# The Backyard Astronomer's Guide

The Backyard Astronomer's Guide  
Star Ware  
A Handbook of Descriptive and Practical Astronomy: Instruments and practical astronomy  
Manual of Astronomy  
A Handbook of Descriptive Astronomy  
Summer Stargazing  
The Urban Astronomer's Guide  
The Universe Today  
Ultimate Guide to Viewing the Cosmos  
A Guide to Backyard Astronomy  
NightWatch  
A Laboratory Manual in Astronomy  
A Guide to the Choice of Books for Students & General Readers  
A guide to the choice of books for students and general readers, ed. by A.H.D. Acland  
Practical Masonry: a Guide to the Art of Stone Cutting  
Our Universe  
The Amateur Astronomer's Guide to the Deep-Sky Catalogs  
Handbook of Astronomy  
Manual of Astronomy  
Astronomy for Older Eyes  
A Manual of the Antiquity of Man  
Terence Dickinson Philip S. Harrington George Frederick Chambers Charles Augustus Young George Frederick Chambers Terence Dickinson Rod Mollise David Dickinson Robert Burnham Terence Dickinson Mary Emma Byrd Sir Arthur Herbert Dyke Acland Guide William R. Purchase Jo Dunkley Jerry D. Cavin Dionysius Lardner Robert William Shaw James L. Chen John Patterson MacLean

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the modern classic completely updated the newest edition of the backyard astronomer's guide includes the

latest data and answers the questions most often asked by home astronomers from beginners to experienced stargazers. Terence Dickinson and Alan Dyer provide expert guidance on the right types of telescopes and other equipment, photographing the stars through a telescope, and star charts software and other references. They cover daytime and twilight observing, planetary and deep sky observing, and much more, with over 500 color photographs and illustrations. The Backyard Astronomer's Guide is one of the most valuable, beautiful, and user-friendly astronomy books ever produced. New and updated for this edition, a 20-page full-color atlas of the Milky Way provides location and context for hundreds of celestial objects mentioned throughout the book. A chapter on astrophotography with digital cameras specifies what equipment works best and how to use it to collect a color gallery of celestial portraits. Telescopes for recreational astronomy, features, assessments of a wide range of new telescopes from models for beginners to those for veteran astronomy enthusiasts, with special emphasis on computerized telescopes, and how they work. Accessory catalog spotlights the best of the accessories and flags the frivolous and irrelevant. Three practical appendices: polar aligning your telescope, optics cleaning, and collimation testing your telescope optics. Any serious home astronomer must have this superb guide as an ongoing reference.

This is the third edition of Philip Harrington's popular and comprehensive guide to astronomical equipment, written for both new astronomers as well as experienced amateurs. It includes numerous tips and tricks from other experienced astronomers. In this revised and updated edition of *Star Ware: The Essential Guide to Buying Astronomical Equipment*, award-winning astronomy writer Philip Harrington does the work for you, analyzing and exploring today's astronomy market and offering point-by-point comparisons of everything you need, whether you're an experienced amateur astronomer or just getting started.

An abundantly illustrated guide to the year's best stargazing season, summer, brings with it fine stargazing weather. It also happens to be the time of the year when our galaxy, the Milky Way, arches high across the sky. Terence Dickinson, the cool, clear nights from May to October offer astronomers the best opportunities for stargazing. Few sights in nature can compare with the splendor of a dazzling star-filled sky. Summer stargazing captures the grandeur of the universe with down-to-earth simplicity. All that is needed is a reasonably dark night sky, a pair of binoculars, or a simple telescope, and this book. The book features everything else the amateur astronomer needs, including easy-to-use color star charts that cover the entire North American sky for one year, and photographic quality charts for this main stargazing season, with summer stargazing.

astronomers can delve into the majesty of the starry night to explore planets of the solar system galaxies remote star forming nebulae glittering star clusters and more helpful advice is given for safely viewing special phenomena such as eclipses and auroras summer stargazing is both a stargazing guide and a pictorial celebration of the summer night sky

most amateur astronomers yearn to observe more frequently many of them however live in urban and highly developed suburban areas that are heavily light polluted due to this light pollution they are under the impression that deep sky objects nebulae galaxies star clusters are either invisible or not worth viewing from home this book describes the many objects that can be seen in a bright urban sky and shows the city or suburban astronomer how to observe object after object season after season this book covers the why how and what of astronomy under light polluted skies the prospective city based observer is told why to observe from home there are hundreds of spectacular objects to be seen from the average urban site how to observe the city sky telescopes accessories and modern techniques and what to observe about 50 of the book is devoted to describing tours of the sky with physical and observational descriptions at the eyepiece drawings and photographs

the definitive resource for viewing the night sky david dickinson earth science teacher and backyard astronomer and fraser cain publisher of universe today have teamed up to provide expert guidance on observing the night sky the universe today ultimate guide to viewing the cosmos features the best tips and tricks for viewing our solar system and deep sky objects as well as detailed charts graphs and tables to find must see events for years to come this comprehensive guide is complete with stunning and exclusive photography from top night sky photographers as well as advice on how to take your own incredible photos take your recreational viewing to the next level with activities like finding comets and asteroids tracking variable stars monitoring meteor showers following solar activity tracking satellites timing lunar and asteroid occultations with star charts practical background information technological resources and telescope and astrophotography guides this is the ultimate resource for any backyard space enthusiast

a practical guide to viewing the universe

a world renowned astrophysicist takes us through the huge unfolding history of the universe the night sky is an endless source of wonder and mystery for thousands of years it has been at the heart of scientific and

philosophical inquiry from the first star catalogues etched into ancient mesopotamian clay tablets to the metres wide telescopes constructed in chile's atacama desert today on a clear night it is hard not to look up and pick out familiar constellations and to think of the visionary minds who pioneered our understanding of what lies beyond in this thrilling new guide to our universe and how it works professor of astrophysics jo dunkley reveals how it only becomes more beautiful and exciting the more we discover about it with warmth and clarity dunkley takes us from the very basics why the earth orbits the sun and how our moon works right up to massive strange phenomena like superclusters quasars and the geometry of spacetime as she does so dunkley unfurls the history of humankind's heroic journey to understand the history and structure of the cosmos revealing the extraordinary little known stories of astronomy pioneers including williamina fleming vera rubin and jocelyn bell burnell illuminating and uplifting this is your essential guide to the biggest subject of all

every amateur astronomer has at least heard of the many different catalogs of deep sky objects the most well known are the messier the caldwell the herschel and the ngc all of these catalogs are in general readily available but very few amateur observers are in a position to choose the best catalog for their particular deep sky observing program know how to use the catalog or even realize just how many there are out there the amateur astronomer's guide to the deep sky catalogs is a single compilation of the historical and modern astronomical deep sky catalogs it discusses their origins compares what's in them explains how to interpret the data they contain and even outlines how readers can create suitable custom catalogs for their own use the last section provides a set of three deep sky catalogs created by the author for observers of different levels of experience from newcomer to expert

this book is for the aging amateur astronomy population including newcomers to astronomy in their retirement and hobbyists who loved peering through a telescope as a child whether a novice or an experienced observer the practice of astronomy differs over the years this guide will extend the enjoyment of astronomy well into the golden years by addressing topics such as eye and overall health issues recommendations on telescope equipment and astronomy related social activities especially suited for seniors many baby boomers reaching retirement age are seeking new activities and amateur astronomy is a perfect fit as a leisure time activity established backyard astronomers who began their love of astronomy in their youth meanwhile may face many physical and mental challenges in continuing their lifelong hobby as they

age beyond their 55th birthdays that perfect telescope purchased when they were thirty years old now suddenly at sixty years old feels like an immovable object in the living room the 20/20 eyesight has given way to reading glasses or bifocals treasured eyepieces feel all wrong growing old is a natural process of life but astronomy is timeless with a little knowledge and some lifestyle adjustments older astronomers can still enjoy backyard observing well into their seventies eighties and even into their nineties

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