

Astronomical League Guide To Open Star Clusters Astroleague

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Astronomy of the Milky Way

Mike Inglis 2012-12-06 This is the first of a two-volume set that deal with the entire Milky Way. This first volume looks at what can be seen predominantly from the Northern Skies. In addition to

the descriptive text, there are many star charts and maps, as well as the latest up-to-date images made by observatories around the world and in space, as well as images taken by amateur astronomers.

The Complete CD Guide to the Universe Richard Harshaw

2007-09-06 This is the largest and most comprehensive atlas of the universe ever created for amateur astronomers. With finder charts of unprecedented detail, in both normal and mirror-image views, and an extensive list of 14,000 objects, it provides a detailed observing guide for almost any practical amateur astronomer, up to the most advanced. Spanning some 3,000 pages, this is a project that is possible only on CD-ROM. The CD-R pages are extensively indexed and referenced for quick location of objects. The accompanying book gives an introduction to the Atlas, showcases the maps, describes the CD-R content and organization, and includes various appendices.

A Buyer's and User's Guide to Astronomical Telescopes and Binoculars

James Mullaney 2013-10-10 Amateur astronomers of all skill levels are always contemplating their next telescope, and this book points the way to the most suitable instruments. Similarly, those who are buying their first telescopes - and these days not

necessarily a low-cost one - will be able to compare and contrast different types and manufacturers. This exciting and revised new guide provides an extensive overview of binoculars and telescopes. It includes detailed up-to-date information on sources, selection and use of virtually every major type, brand, and model on today's market, a truly invaluable treasure-trove of information and helpful advice for all amateur astronomers. Originally written in 2006, much of the first edition is inevitably now out of date, as equipment advances and manufacturers come and go. This second edition not only updates all the existing sections of "A Buyer's and User's Guide to Astronomical Telescopes and Binoculars" but adds two new ones: Astro-imaging and Professional-Amateur collaboration. Thanks to the rapid and amazing developments that have been made in digital cameras - not those specialist cool-chip astronomical cameras, not even DSLRs, but regular general-

purpose vacation cameras – it is easily possible to image all sorts of astronomical objects and fields. Technical developments, including the Internet, have also made it possible for amateur astronomers to make a real contribution to science by working with professionals. Selecting the right device for a variety of purposes can be an overwhelming task in a market crowded with observing options, but this comprehensive guide clarifies the process. Anyone planning to purchase binoculars or telescopes for astronomy – whether as a first instrument or as an upgrade to the next level – will find this book a treasure-trove of information and advice. It also supplies the reader with many useful hints and tips on using astronomical telescopes or binoculars to get the best possible results from your purchase.

Cosmic Challenge Philip S. Harrington 2010-10-21 Listing more than 500 sky targets, both near and far, in 187 challenges, this observing

guide will test novice astronomers and advanced veterans alike. Its unique mix of Solar System and deep-sky targets will have observers hunting for the Apollo lunar landing sites, searching for satellites orbiting the outermost planets, and exploring hundreds of star clusters, nebulae, distant galaxies, and quasars. Each target object is accompanied by a rating indicating how difficult the object is to find, an in-depth visual description, an illustration showing how the object realistically looks, and a detailed finder chart to help you find each challenge quickly and effectively. The guide introduces objects often overlooked in other observing guides and features targets visible in a variety of conditions, from the inner city to the dark countryside. Challenges are provided for the naked eye, through binoculars and the largest backyard telescopes.

The Herschel Objects and How to Observe Them James Mullaney 2007-08-22 Amateur

astronomers are always on the lookout for new observing challenges. This exciting book retraces the steps of the greatest visual observer and celestial explorer who ever lived. This is a practical guide to locating and viewing the most impressive of Herschel's star clusters, nebulae and galaxies, cataloging more than 600 of the brightest objects, and offering detailed descriptions and images of 150 to 200 of the best.

Uranometria 2000.0: Deep sky field guide 2001

Star Clusters and How to Observe Them Mark Allison

2006-04-04 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.

Sky Vistas Craig Crossen 2012-12-06 Praise for Craig Crossen and Gerald Rhemann's, Sky Vistas Astronomy "This is a practical and stunningly beautiful guide whose core is a descriptive tour of the best celestial sights: open and globular clusters, nebulae, galaxies, and large areas of sky. The photos in black and white and color, are magnificent. The text goes beyond ordinary descriptions to tell the reader something about each object's nature." Sky & Telescope "Packed with information that I have encountered nowhere else in amateur-astronomy literature. Sky Vistas also includes 48 full-page color astrophotos by Gerald Rhemann, most of which

are magnificent."

The Bedford catalogue

William Henry Smyth 1844

The Complete Guide to the Herschel Objects

Mark Bratton 2011-09-15 Provides a complete re-examination of Herschel's entire catalogue; a must-have for amateur astronomers seeking new and exciting observing challenges.

Illustrated Guide to Astronomical Wonders

Robert Thompson 2007 Offers basic information about astronomy, including its terminology, the best equipment to purchase for stargazing, and images of over one hundred objects to view in the night sky such as star clusters, nebulae, and galaxies.

Compendium of Practical Astronomy Günter D. Roth 2012-12-06 It is a pleasure to present this work, which has been well received in German-speaking countries through four editions, to the English-speaking reader. We feel that this is a unique publication in that it contains valuable material that cannot easily-if at all-be found elsewhere. We are

grateful to the authors for reading through the English version of the text, and for responding promptly (for the most part) to our queries. Several authors have supplied us, on their own initiative or at our suggestion, with revised and updated manuscripts and with supplementary English references. We have striven to achieve a translation of Handbuch for Sternfreunde which accurately presents the qualitative and quantitative scientific principles contained within each chapter while maintaining the flavor of the original German text. Where appropriate, we have inserted footnotes to clarify material which may have a different meaning and/or application in English-speaking countries from that in Germany. When the first English edition of this work, Astronomy: A Handbook (translated by the late A. Beer), appeared in 1975, it contained 21 chapters. This new edition is over twice the length and contains 28 authored chapters in three volumes. At Springer's request, we have devised a

new title, Compendium of Practical Astronomy, to more accurately reflect the broad spectrum of topics and the vast body of information contained within these pages.

Sky Guide Africa South - 2020
Astronomical Society of Southern Africa 2019-11-01
Sky Guide Africa South 2020 is a practical resource for all astronomers, whether they be novice, amateur or professional. It covers the upcoming year's planetary movements, predicted eclipses, meteor showers - any events and facets of the night sky that change annually. Star charts plot the evening sky for each season, facilitating the identification of stars and constellations. The guide contains a wealth of information about the Sun, Moon, planets, comets, meteors and bright stars, with photos, diagrams, charts and images. There's also an excellent list of useful websites and a comprehensive glossary. This annual publication is an invaluable guide for anyone who has even a passing

interest in the night skies of southern Africa and is '... an absolute must for first-time star-gazers and professional astronomers alike'. Sales points: Contains the latest, most-up-to-date information, packed with charts, illustrations, images, tables, etc. for quick reference, will appeal to a wide audience, from beginners to professionals, includes tips on basic night-sky gazing, excellent value for money.

Astronomy of the Milky Way

Mike Inglis 2018-04-05
This second edition of Mike Inglis's classic guide to observing the Milky Way in the Southern Hemisphere updates all of the science about the target objects with new findings from the astrophysics field. In addition, the book boasts a larger format with entirely re-drawn maps. Newly laid out for ease of use with an increased number of images in color, it updates and improves the first edition to remain the most comprehensive text on the subject. One of the wonders of the universe we live in is the

Milky Way, and this book provides a wonderful tour of its highlights for amateur astronomers observing below the equator. In its pages, Southern Hemisphere observers interested in viewing our own galaxy's finest features will find every constellation that the Milky Way passes through with detailed descriptions of the many objects that can be found therein, including stars, double and multiple stars, emission nebulae, planetary nebulae, dark nebulae and supernovae remnants, open and galactic clusters, and galaxies. The book also details the one thing that is often left out of observing guides - the amazing star clouds of the Milky Way itself. Accompanying the descriptive text there are many star charts and maps, as well as the latest images made by observatories around the world and in space along with those taken by amateur astronomers. This second edition's updated scientific material and an easy-to-use layout perfect for many nights of fruitful observation.

The Andromeda Galaxy A

Guide to the Universe Jr.,
Donald Craig

Star Clusters Brent A. Archinal
2003-01-01

The Complete CD Guide to the Universe Richard Harshaw
2007-04-13 This is the largest and most comprehensive atlas of the universe ever created for amateur astronomers. With finder charts of unprecedented detail, in both normal and mirror-image views, and an extensive list of 14,000 objects, it provides a detailed observing guide for almost any practical amateur astronomer, up to the most advanced. Spanning some 3,000 pages, this is a project that is possible only on CD-ROM. The CD-R pages are extensively indexed and referenced for quick location of objects. The accompanying book gives an introduction to the Atlas, showcases the maps, describes the CD-R content and organization, and includes various appendices.

Cambridge Astronomy

Guide William Liller 1990-08-23
'... (the book) conveys the enthusiasm and excitement of the authors even at the

potential of an astronomical discovery, a lot of advice is useful, and it would certainly encourage and help anyone to have a go at astronomical photography.' Astronomy Now

Star Trek the Official Guide to Our Universe Andrew Fazekas 2016 "While starship captains have been exploring the final frontiers of the Star Trek universe, this book takes you for the first time to the edge of our real galaxy and beyond. Stunningly illustrated with hundreds of full-color, futuristic star charts, illustrations and astronomical photos, explore the real-life deep space destinations as seen on television and film screens. a Over its 50-year history, Star Trek has treated generations of viewers to a dazzling assortment of unforgettable images of the cosmos. Multiple star systems, alien worlds, supernova explosions, emission nebulae, and, of course, voracious black holes, just to name a few. a Star Trek- The Official Guide to Our Universe introduces you to the astronomy of Star Trek and

takes you on a voyage of discovery, examining the true astronomical counterparts that can be found in the night sky. From Altair to Vega and from red giants to white dwarfs, readers can visit over 50 real celestial objects visible in the night sky, as known to the Starfleet Academy. a No warp driven starship or even a telescope required to go on these voyages, as most destinations are bright enough to be seen just with the naked eye. This guide is for anyone ready to launch their own mission into space-the final frontier. Your personal voyage to explore strange new worlds begins here."

The Complete Guide to the Herschel Objects Mark Bratton 2011-09-15 Sir William Herschel's contributions to astronomy during the late eighteenth century are unrivalled. His lasting legacy is his dedicated all-sky survey of star clusters and nebulae, and these objects continue to be among the most studied in the night sky. This unique book provides a complete re-

examination of Herschel's entire catalogue of non-stellar discoveries, making it the most accurate and up-to-date reference of its kind. Retrace the footsteps of one of history's greatest astronomers and explore every one of Herschel's landmark discoveries, including those considered to be lost or non-existent. Read detailed notes about each object's appearance and physical characteristics, and view hundreds of photos of the most intriguing Herschel objects, along with dozens of sketches of what is visible at the eyepiece. This superb book is a must-have for amateur astronomers seeking new and exciting observing challenges, and as the ultimate reference on the Herschel objects.

[The Observer's Guide to Astronomy: Volume 2](#) Patrick Martinez 1994-09-22 An authoritative guide, first published in 1994, packed with practical tips for all types and levels of observations in amateur astronomy.

[Deep-Sky Wonders](#) Walter Scott Houston 2007-05-01 From 1946

to 1994, Sky & Telescope magazine featured a column called Deep-Sky Wonders, in which amateur astronomer Walter Scott "Scotty" Houston captured the wonder and delight of exploring the farthest reaches of the deep sky. In this book, Sky & Telescope contributing editor Stephen James O'Meara presents a month-by-month selection of Scotty's columns along with insightful observations and warm recollections of his time with Scotty. More than a field guide, Deep Sky Wonders is the work of a man who was a major influence on the development of amateur astronomy for nearly half a century.

50 Things to see With a Telescope John A. Read

2018-09-25 John A. Read covers everything needed to identify constellations, planets, stars, galaxies, nebulae and more. Inquisitive stargazers will find planet hunting 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.

Astronomy Hacks Robert Bruce Thompson 2005 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.

Binocular Stargazing Mike D. Reynolds 2005-10-25 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.

The Monthly Sky Guide Ian Ridpath 2012-12-10 The ninth edition of Ian Ridpath and Wil Tirion's famous guide to the night sky is updated with planet positions and forthcoming eclipses to the end of the year 2017. It contains twelve chapters describing the main sights visible in each month of the year, providing an easy-to-use companion for anyone wanting to identify prominent stars, constellations, star clusters, nebulae and galaxies; to watch out for meteor showers ('shooting stars'); or to follow the movements of the four brightest planets, Venus, Mars, Jupiter and Saturn. Most of the sights described are visible to the naked eye and all are within reach of binoculars or a small telescope. This revised and updated edition includes sections on observing the Moon and the planets, with a comprehensive Moon map. The Monthly Sky Guide offers a

clear and simple introduction to the skies of the northern hemisphere for beginners of all ages.

Sky Guide Africa South 2022

Astronomical Society of Southern Africa 2021-11-01 Sky Guide Africa South - 2022 is a practical resource for all astronomers, whether novice, amateur or professional. It covers the upcoming year's planetary movements, predicted eclipses, meteor showers - any events and facets of the night sky that change annually. Star charts plot the evening sky for each season, facilitating the identification of stars and constellations. The guide contains a wealth of information about the Sun, Moon, planets, comets, meteors and bright stars, with photos, diagrams, charts and images. Sales points: Contains the latest, most-up-to-date information; packed with charts, illustrations, images, tables, etc, includes tips on basic night-sky gazing, excellent value for money, updated layout - now more

user friendly.

Astronomical Sketching: A Step-by-Step Introduction

Richard Handy 2007-10-08 This book presents the amateur with fine examples of astronomical sketches and step-by-step tutorials in each medium, including pencil, pen and ink, chalks and pastels, painting and computer graphics programs. This unique book can teach almost anyone to create beautiful sketches of celestial objects by following simple, illustrated, step-by-step instructions. Readers can select a chapter related to their preferred class of object, and rapidly learn techniques in several media. Each chapter contains useful information regarding equipment, techniques for preserving and archiving sketches, and suggestions for accurate record keeping.

The Audubon Society Field Guide to the Night Sky

Mark R. Chartrand 1991 Field guide to the night sky with information on individual stars, constellations, galaxies, planets, and the moon.

The Night Sky Companion

Tammy Plotner 2008-11-01 T.

Plotner, The Night Sky

Companion, DOI 10.

1007/978-0-387-79509-6_1, 1

Springer Science+Business

Media, LLC 2009 2

TheNightSkyCompanion

Welcome, fellow travelers to the sta

rs! For the next year we will take a jo

urney together across the night

sky. In these pages you will find

lunar features, planets, meteor

showers, single and multiple

stars, open and globular

clusters, as well as distant

galaxies. There will be

astronomy history to explore,

famous astronomers to meet,

and science to learn. You'll find

things here for those who enjoy

stargazing with just their eyes,

binoculars, or even the largest

of telescopes! Although these

observing tips are designed

with all readers in mind, not

everyone lives in the same time

zone—or the same

hemisphere—and certainly no

one has clear skies every night.

But no matter where you live,

or who you are, it is my hope

that somewhere here you find

something of interest to keep

you looking up!

Learning the Night Sky If you are

new to astronomy, it might

seem difficult to learn all those

stars. Relax! It's much easier

than you think. Just like moving

to a new city, everything will

seem unfamiliar at first, but

with a little help from some

maps, you'll soon be finding

your way around like a pro.

Once you become familiar with

the constellations and how they

appear to move across the

night sky, the rest is easy. If

you do not have maps of your

own, try visiting your local

library or one of many online

sites that can generate them.

They give object positions in great

detail, and most have a key of Gree

k letters to help you understand

star hop instructions.

Herschel 400 Observing

Guide Steve O'Meara

2007-06-14 Steve O'Meara's

guide to the Herschel 400 for

amateur astronomers.

Observer's Guide to Star

Clusters Mike Inglis 2013-07-20

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 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.

Astronomy of the Milky Way

Mike Inglis 2012-12-06 One of the wonders of the universe we live in is the Milky Way. It spans the entire sky and can be seen every night of the year from anywhere on Earth. This is the first book that deals specifically with what can be seen within the Milky Way from a practical observer's point of view.

Astronomy of the Milky Way covers every constellation that the Milky Way passes through, and describes in detail the many objects that can be found therein, including stars, double and multiple stars, emission nebulae, planetary nebulae, dark nebulae and supernovae remnants, open and galactic clusters, and galaxies. It also describes the one thing that is often left out of observing guides - the amazing star clouds of the Milky Way itself. It

is one of a two-volume set that deal with the entire Milky Way - this second volume looks at what can be seen predominantly from the Southern skies In addition to the descriptive text there are many star charts and maps, as well as the latest up-to-date images made by observatories around the world and in space, as well as images taken by amateur astronomers. Equipped with this book, an amateur astronomer can go out on any clear night of the year and observe the galaxy we live in - The Milky Way.

David Levy's Guide to the Night Sky

David H. Levy
2001-11-22 Introduces beginners to amateur astronomy, describes what to look for and when--beginning with the solar system and moving on to the stars--and offers suggestions for better observations.

The Deep-sky Field Guide to Uranometria 2000.0

Murray Cragin 1993
The Star Guide Robin Kerrod
2005-02-22 An international bestseller for more than a

decade, The Star Guide has been the bible for stargazers everywhere. Now, Robin Kerrod, one of the world's leading writers on astronomy and space, has expertly updated this invaluable resource to include the most recent developments in astronomical research and technology. The Star Guide, Second Edition, present the latest findings from the world's astronomers, as well as by the Hubble Space Telescope and the Magellan probe to Venus. The Photographic coverage has been dramatically enhanced by the newest jaw-dropping views of the universe, which were captured by the latest generation of ground-based telescopes like the Very Large Telescope in Chile and space telescopes such as the Hubble at the Chandra Observatory. This thoroughly revised edition has also been reorganized to make it even more user-friendly. It retains the moon maps, the detailed maps of the monthly night skies, and the featured constellations that so distinguished the first edition,

as well as the immensely useful detachable planisphere. Each key constellation has become the focus feature that dissects the monthly sky where it is more prominent and best observed. A specially engineered and unique visual cross-referencing system provides easy access to information and to Explanations of core terms and concepts. Discussion and analysis of the astronomer's tools includes advice on the use of binoculars, telescopes, computers, and cameras. Feature boxes explain scientific theory and both recent and ancient astronomical history harking back to stargazing's mythological foundations in ancient Greece. Recent planetary discoveries from the newest space probes and landers bring us closer to the cosmos than ever before. Easy-to-follow star charts means that The Star Guide relies on the user's observations made with binoculars and the naked eye—you don't need to be an expert astronomer to interact with the heavens! Star

sightings and an introduction to the galactic wonders of giant stars, comets, supermassive black holes, hurling asteroids, satellites, and other uncharted deep space territory are sure to inspire. Plunge headfirst into the fascinating minutiae of the celestial sphere. From the explosive birth of a star to an eclipse to a cloudy nebula, The Star Guide demystifies astronomy and gets you up close and personal with the awesome wonders of the universe.

[Patrick Moore's Astronomy: A Complete Introduction: Teach Yourself](#) Patrick Moore
2015-07-30 Astronomy: A Complete Introduction will ensure you recognize what you are seeing in the night sky. You will investigate the sun, moon, planets comets and stars and learn how to observe them. This comprehensive guide, complete with star charts, will map out the skies and allow you to impress your friends with your knowledge of the sky at night. Astronomy: A Complete Introduction includes: Chapter 1: Introducing

Astronomy Chapter 2: The spinning sky Chapter 3: Sky-watchers Chapter 4: The astronomer's telescope Chapter 5: Into space Chapter 6: The Sun Chapter 7: The Moon Chapter 8: The Sun's family Chapter 9: The inner planets Chapter 10: The outer planets Chapter 11: Minor members of the Solar System Chapter 12: The stars Chapter 13: Pattern of stars Chapter 14: Double and variable stars Chapter 15: The life and times of a star Chapter 16: The Star-clusters and nebulae Chapter 17: The depths of the universe Chapter 18: Into the future - life beyond the Earth

The Amateur Astronomer's Guide to the Deep-Sky Catalogs

Jerry D. Cavin
2011-10-27 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.

Exploring the Universe: A Laboratory Guide for Astronomy

Mike D. Reynolds
2015-01-01 Astronomy is a fun and challenging science for students. This manual is intended for one- and two-semester astronomy courses and uses hands-on, engaging activities to get students looking at the sky and developing a lifelong interest in astronomy.

From Casual Stargazer to Amateur Astronomer Dave Eagle 2013-10-16 The beginning astronomical observer passes through a series of stages. The initial stage is hugely exciting and gives the beginner a real buzz as he discovers some of the faint fuzzy objects, markings on the planets, rings around Saturn and the craters on the Moon. But as the novice observer progresses, he or she wants to know what more there is than looking at faint fuzzy blobs or indistinct planet markings. Many jump to the conclusion - wrongly - that they need to spend lots of money on expensive equipment to progress. "From Casual Stargazer to Amateur Astronomer" has been written specifically to address this

group of budding stargazers. Astronomy is much more than a quick sightseeing tour. Patient observers who can develop their skills will start to appreciate what they are seeing, and will know exactly what to look out for on any particular night. And equally important, they will learn what not to expect to see. "From Casual Stargazer to Amateur Astronomer" is for those who want to develop observing skills beyond mere sightseeing, and learn some of the techniques used to carry out enjoyable - and scientifically useful - observations. It will also direct readers to make informed choices about what can be seen and when. This book is for anyone keen to develop their skills as an amateur astronomer.