

Stargazing Basics Getting Started In Recreational Astronomy

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BARRONS ACT STUDY GUIDE. - Brian Stewart 2021

Universe - DK 2020-09-08

Marvel at the wonders of the universe, from stars and planets to black holes and nebulae, in this exploration of our solar system and beyond. Universe opens with a look at astronomy and the history of the Universe, using 3D artworks to provide a comprehensive grounding in the fundamental concepts of astronomy, including the basic techniques of practical astronomy. The core of the book is a tour of the cosmos covering the Solar System, the Milky Way, and galaxies beyond our own. Explanatory pages introduce different celestial phenomena, such as galaxies, and are followed by catalogs that profile the most interesting and important examples. A comprehensive star atlas completes the picture, with entries on each of the 88 constellations and a monthly sky guide showing the night sky as it appears throughout the year as viewed from both the northern and southern hemispheres.

Simple Stargazing - Anton Vamplew 2013-08-29

A first-time skywatcher's guide from bright new talent, BBC Blue Peter astronomer, Anton Vamplew

Recreations in Astronomy with Directions for Practical Experiments and Telescopic Work - Henry White Warren 1887

A Question and Answer Guide to Astronomy - Carol Christian 2017-03-23

Contains 250 questions and answers about astronomy, particular for the amateur astronomer.

The Cambridge Star Atlas - Wil Tirion 2011-01-27

This classic star atlas is ideal for both beginning astronomers and more experienced observers worldwide. The clear, full-color maps show stars, clusters and galaxies visible with binoculars or a small telescope. The atlas also features constellation boundaries and the Milky Way, and lists objects that are interesting to observe. This new edition features a clearer map of the Moon's surface, showing craters and features; a second Moon map, mirror reversed for users of telescopes with star diagonals; enhanced index charts showing the constellations more clearly; and a new data table listing stars hosting planetary systems. It is now spiral bound, making it ideal for use at the telescope.

The Cambridge Star Atlas - Wil Tirion 2001-03-08

Provides information about the moon, star charts and monthly sky maps covering that which is visible each month in different hemispheres.

Turn Left at Orion - Guy Consolmagno 2011-09-22

With over 100,000 copies sold since first publication, this is one of the most popular astronomy books of all time. It is a unique guidebook to the night sky, providing all the information you need to observe a whole host of celestial objects. With a new spiral binding, this edition is even easier to use outdoors at the

telescope and is the ideal beginner's book. Keeping its distinct one-object-per-spread format, this edition is also designed for Dobsonian telescopes, as well as for smaller reflectors and refractors, and covers Southern hemisphere objects in more detail. Large-format eyepiece views, positioned side-by-side, show objects exactly as they are seen through a telescope, and with improved directions, updated tables of astronomical information and an expanded night-by-night Moon section, it has never been easier to explore the night sky on your own. Many additional resources are available on the accompanying website, www.cambridge.org/turnleft.

The Silver Disobedience Playbook - Dian Griesel
2019-04-21

Daily, thousands of women and men respond to short Silver Disobedience® essays posted on an assortment of social media accounts. Not with a mere thumbs-up: Dian's passionate readers share extensive personal responses, stories and gratitude for her heartfelt candor about deep feelings, thoughts, fears, problems and doubts to which so many seem to closely relate. As a "she-ro" to many, and as one who is said to be grounded in the common sense of being real, Dian offers comforting, challenging and practical advice. Her warmth, relatable stories and overall receptive tone encourage readers to contemplate their own ideas and explorations of age and aging. "Silver Disobedients," as her followers proudly call themselves, asked for this collection of daily essays that can be carried, highlighted, read and reread anytime and anywhere, and left close by for meditation. This book is for all seeking to make life and relationships with ourselves and others work with greater love. It recognizes and embraces our common humanity and challenges, and helps each reader to call forth the inner strength, resilience and courage we might have forgotten we had. A playbook for living and loving agelessly, these essays or meditations, as some call them, remain timelessly relevant for all at any and every phase of life.

Earth and Space - Nirmala Nataraj 2015-10-13
"[A] glorious, pictorial tour of the universe . . . beginning with photos depicting Earth from space and progressing through . . . the individual planets." —School Library Journal Preface by Bill

Nye Take a tour of the universe with this breathtaking collection of photographs from the archives of NASA. Astonishing images of Earth from above, the phenomena of our solar system, and the celestial bodies of deep space will captivate readers and photography lovers with an interest in science, astronomy, and the great beyond. Each extraordinary photograph from the legendary space agency is paired with explanatory text that contextualizes its place in the cosmic ballet of planets, stars, dust, and matter—from Earth's limb to solar flares, the Jellyfish Nebula to Pandora's Cluster. Featuring a preface by Bill Nye, this engaging ebook offers up-close views of our remarkable cosmos, and sparks wonder at the marvels of Earth and space. "Delve into the great beyond with these awe-inspiring photos from NASA's archive."

—Entertainment Weekly "Puts some of our most magnificent space imagery in context, and it's enough to make anyone feel like just the tiniest little speck of stardust." —BuzzFeed

The Universe - Lonely Planet 2019-10-01

Let Lonely Planet take you further than ever before with the world's first and only travel guide to the Universe, developed with the latest data from NASA. Touch down on the planets of our solar system, before continuing your trip to the edge of the known Universe via exoplanets, newborn stars, supernova remnants, galaxy superclusters and more.

[Science News](#) - 2008

Dark Skies - Lonely Planet Publications
2019-09-01

Discover the best stargazing destinations with Lonely Planet's Dark Skies, the world's first guide to astrotourism. This comprehensive companion includes guides to 35 dark-sky parks, where to see the aurora, total solar eclipses, how to view rocket launches and the lowdown on commercial space flight.

[The Human Cosmos](#) - Jo Marchant 2020-09-01

A Best Book of 2020 NPR A Best Book of 2020 The Economist A Top Ten Best Science Book of 2020 Smithsonian A Best Science & Technology Book of 2020 Library Journal A Must-Read Book to Escape the Chaos of 2020 Newsweek Starred review Booklist Starred review Publishers Weekly An historically unprecedented disconnect between humanity and the heavens

has opened. Jo Marchant's book can begin to heal it. For at least 20,000 years, we have led not just an earthly existence but a cosmic one. Celestial cycles drove every aspect of our daily lives. Our innate relationship with the stars shaped who we are--our art, religious beliefs, social status, scientific advances, and even our biology. But over the last few centuries we have separated ourselves from the universe that surrounds us. It's a disconnect with a dire cost. Our relationship to the stars and planets has moved from one of awe, wonder and superstition to one where technology is king--the cosmos is now explored through data on our screens, not by the naked eye observing the natural world. Indeed, in most countries modern light pollution obscures much of the night sky from view. Jo Marchant's spellbinding parade of the ways different cultures celebrated the majesty and mysteries of the night sky is a journey to the most awe inspiring view you can ever see--looking up on a clear dark night. That experience and the thoughts it has engendered have radically shaped human civilization across millennia. The cosmos is the source of our greatest creativity in art, in science, in life. To show us how, Jo Marchant takes us to the Hall of the Bulls in the caves at Lascaux in France, and to the summer solstice at a 5,000-year-old tomb at New Grange in Ireland. We discover Chumash cosmology and visit medieval monks grappling with the nature of time and Tahitian sailors navigating by the stars. We discover how light reveals the chemical composition of the sun, and we are with Einstein as he works out that space and time are one and the same. A four-billion-year-old meteor inspires a search for extraterrestrial life. The cosmically liberating, summary revelation is that star-gazing made us human.

Practical Astronomy with your Calculator or Spreadsheet - Peter Duffett-Smith 2011-05-05

Now in its fourth edition, this highly regarded book is ideal for those who wish to solve a variety of practical and recreational problems in astronomy using a scientific calculator or spreadsheet. Updated and extended, this new edition shows you how to use spreadsheets to predict, with greater accuracy, solar and lunar eclipses, the positions of the planets, and the times of sunrise and sunset. Suitable for

worldwide use, this handbook covers orbits, transformations and general celestial phenomena, and is essential for anyone wanting to make astronomical calculations for themselves. With clear, easy-to-follow instructions for use with a pocket calculator, shown alongside worked examples, it can be enjoyed by anyone interested in astronomy, and will be a useful tool for software writers and students studying introductory astronomy. High-precision spreadsheet methods for greater accuracy are available at www.cambridge.org/practicalastronomy.

Choosing and Using a Refracting Telescope - Neil English 2010-09-28

Choosing and Using a Refracting Telescope has been written for the many amateur astronomers who already own, or are intending to purchase, a refracting telescope - perhaps to complement their existing arsenal of larger reflecting telescopes - or for the specialist who requires a particular refractor for serious astronomical applications or nature studies. Four hundred year ago, during the winter of 1609, a relatively unknown Italian scientist, Galileo Galilei designed a spyglass with two crude lenses and turned it skyward. Since then, refractors have retained their dominance over all types of reflector in studies of the Moon, planets and double stars because of the precision of their optics and lack of a central obstruction in the optical path, which causes diffraction effects in all commercially-made reflectors. Most mature amateur astronomers got started with a 60mm refractor, or something similar. Thirty years ago, there was little choice available to the hobbyist, but in the last decade long focus crown-flint achromats have moved aside for some exquisitely crafted apochromatic designs offered by leading commercial manufacturers. There has been a huge increase in the popularity of these telescopes in the last few years, led by a significant increase in the number of companies (particularly, William Optics, Orion USA, StellarVue, SkyWatcher and AstroTech) who are now heavily marketing refractors in the amateur astronomical magazines. In Choosing and Using a Refracting Telescope, well-known observer and astronomy writer Neil English celebrates the remarkable history and evolution of the refracting telescope and looks in detail at the

instruments, their development and their use. A major feature of this book is the way it compares not only different classes of refractor, but also telescopes of each class that are sold by various commercial manufacturers. The author is perhaps uniquely placed to do this, having used and tested literally hundreds of different refracting telescopes over three decades. Because it includes many diverse subjects such as imaging with consumer-level digital cameras, imaging with webcams, and imaging with astronomical CCD cameras - that are not covered together in equal depth in any other single volume - *Choosing and Using a Refracting Telescope* could become the 'refractor bible' for amateur astronomers at all levels, especially those who are interested in imaging astronomical objects of every class.

The Backyard Astronomer's Guide - Terence Dickinson 2021-09-15

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 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.

Choosing and Using Astronomical Eyepieces - William Paolini 2013-08-23

A valuable reference that fills a number of niches including that of a buyer's guide, technical desk reference and observer's field guide. It documents the past market and its evolution, right up to the present day. In addition to appealing to practical astronomers - and potentially saving them money - it is useful both as a historical reference and as a detailed review of the current market place for this bustling astronomical consumer product. What distinguishes this book from other publications on astronomy is the involvement of observers from all aspects of the astronomical community, and also the major manufacturers of equipment. It not only catalogs the technical aspects of the many modern eyepieces but also documents amateur observer reactions and impressions over the years, using many different eyepieces. Eyepieces are the most talked-about accessories and collectible items available to the amateur astronomer. No other item of equipment commands such vigorous debate, or has evolved into such a remarkable array of forms and functions. '*Choosing and Using Astronomical Eyepieces*' provides a vast amount of reference material to point readers towards the best buys and the right eyepieces for different kinds of observing.

Study of the Universe - Salem Press 2013

This single explores the many different aspects of our universe, including the Big Bang Theory, the Milky way, planetary formations, extraterrestrial life in the solar system, and the origins of the solar system. Essays selected from Salem's *The Solar System* (2009).

The Glass Universe - Dava Sobel 2017-10-31

From #1 New York Times bestselling author Dava Sobel, the "inspiring" (People), little-known true story of women's landmark contributions to astronomy A New York Times Book Review Notable Book Named one of the best books of the year by NPR, The Economist, Smithsonian, Nature, and NPR's Science Friday Nominated for the PEN/E.O. Wilson Literary Science Writing Award "A joy to read." —The Wall Street Journal In the mid-nineteenth century, the Harvard College Observatory began employing women as calculators, or "human computers," to interpret the observations their male counterparts made via telescope each night. At the outset this group included the wives, sisters, and daughters of the resident astronomers, but soon the female corps included graduates of the new women's colleges—Vassar, Wellesley, and Smith. As photography transformed the practice of astronomy, the ladies turned from computation to studying the stars captured nightly on glass photographic plates. The "glass universe" of half a million plates that Harvard amassed over the ensuing decades—through the generous support of Mrs. Anna Palmer Draper, the widow of a pioneer in stellar photography—enabled the women to make extraordinary discoveries that attracted worldwide acclaim. They helped discern what stars were made of, divided the stars into meaningful categories for further research, and found a way to measure distances across space by starlight. Their ranks included Williamina Fleming, a Scottish woman originally hired as a maid who went on to identify ten novae and more than three hundred variable stars; Annie Jump Cannon, who designed a stellar classification system that was adopted by astronomers the world over and is still in use; and Dr. Cecilia Helena Payne, who in 1956 became the first ever woman professor of astronomy at Harvard—and Harvard's first female department chair. Elegantly written and enriched by excerpts from letters, diaries, and memoirs, *The Glass Universe* is the hidden history of the women whose contributions to the burgeoning field of astronomy forever changed our understanding of the stars and our place in the universe.

Guide to the Jersey Shore - Robert Santelli
2000

NightWatch - Terence Dickinson 2006

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

[The World at Night](#) - Babak Tafreshi 2019-11-19
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 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
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.

The Guide to Amateur Astronomy - Jack Newton 1995-01-19

Featuring new chapters on astro-software and CCD-imaging techniques, a book for amateur astronomers covers astrophotography, telescope construction, planetary observing, comet hunting, variable star recording, and nova discovery, and features both novice and advanced techniques. UP.

[The Brightest Stars](#) - Fred Schaaf 2008-04-21

"Fred Schaaf is one of the most experienced astronomical observers of our time. For more than two decades, his view of the sky-what will be visible, when it will be visible, and what it will look like-has encouraged tens of thousands of people to turn their eyes skyward." —David H. Levy, Science Editor, Parade magazine, discoverer of twenty-one comets, and author of *Starry Night* and *Cosmic Discoveries* "Fred Schaaf is a poet of the stars. He brings the sky into people's lives in a way that is compelling and his descriptions have all the impact of

witnessing the stars on a crystal-clear dark night." —William Sheehan, coauthor of *Mars: The Lure of the Red Planet* and *The Transits of Venus* In this book, you'll meet the twenty-one brightest stars visible from Earth. You'll learn how to find these stars and discover the best ways to see them. Each star is profiled in a separate chapter, with detailed guidance on what to look for while observing it. Suitable for beginners as well as experienced amateur astronomers, the book shares fascinating information about the lore and legends connected with each star through history, as well as what the science of astronomy has to teach us about the star's physical nature.

2022 Guide to the Night Sky Southern Hemisphere: A month-by-month guide to exploring the skies above Australia, New Zealand and South Africa - Storm Dunlop 2021-09-02

A comprehensive handbook to the planets, stars and constellations visible from the southern hemisphere. 6 pages for each month covering January–December 2022.

The History of the Telescope - Henry C. King 2003-01-01

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.

Building and Using Binoscopes - Norman Butler 2014-10-25

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.

The Practical Astronomer - Anton Vamplew
2010-06-01

A complete beginner's guide to observing the night sky. Understand and enjoy the solar system and beyond with this practical guide to astronomy. Pick up all the basics of sky-watching. Start off by taking a tour around the night sky in simple stages, discovering how it fits together and how it works. Then take a closer look at the objects you can see and learn to train your eye to recognize basic patterns of constellations and how to tell planets apart from other celestial bodies. Plus, there's advice on buying and using kit, from binoculars to telescopes. Packed with detailed maps of the night sky and star charts to help any budding astronomer in their quest to find out more about this fascinating subject.

Stargazing Basics - Paul E. Kinzer 2015-07-09

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.

The Stargazer's Guide to the Night Sky - Dr. Jason Lisle 2012

"Unless otherwise noted, Scripture quotations are from the New King James Version of the Bible."--T.p. verso.

Light Pollution - Bob Mizon 2012-06-22

There have been many developments in the field of light pollution over the last few years, and this second edition of 'Light Pollution - Responses and Remedies' will introduce them in detail. Examples include the appearance of anti-light pollution legislation in various countries, new departures in lighting design, human health implications, and the growing realization among the general public that lighting is not always a good thing. In this title, author Bob Mizon discusses the various ways in which wasted artificial light has damaged the quality of modern life, and suggest solutions. This book is for anyone who has experienced glare, discomfort, or nuisance from poorly directed lights; has wondered why we waste so much money lighting the sky; or anyone who simply wants to see the stars instead of a baleful urban glow. "Light Pollution, 2nd Edition" offers practical and inexpensive solutions to the worldwide problem of wasted artificial light, and emphasizes that light pollution is not just an astronomers' problem, but affects everyone in various ways.

Philip's Astrophotography With Mark Thompson
- Mark Thompson 2015-01-30

Philip's Astrophotography With Mark Thompson is an essential guide for anyone wishing to photograph or image the stars and planets, written by TV's favourite astronomer. For many people, looking at the sky is not enough and they would love to try and capture what they can see. Until a few years ago, capturing astronomical images was fraught with many challenges, but with the development of digital cameras replacing film, things have become much easier and great astronomical images are now within the reach of even the most novice stargazer. Mark Thompson has spent many years capturing the beauty of the night sky, first with film and now with the digital camera, and has discovered and overcome many of the pitfalls. This book takes the reader on a journey through the world of capturing astronomical images from using the humble mobile phone to specialist cameras, brought to life with Mark's personal experiences and many of his own astronomical images.

Under Desert Skies - Melissa L. Sevigny
2016-02-25

"The book tells the story of how an upstart planetary laboratory in Tucson, the Lunar and Planetary Laboratory (LPL), would help create the field of planetary science, breaking free from traditional astronomical techniques to embrace a wide range of disciplines necessary to study planets"--Provided by publisher.

Observer's Handbook 2022 - Société royale d'astronomie du Canada 2021

Stargazing Basics - Paul E. Kinzer 2008-10-09
How do I get started in astronomy? Should I buy binoculars or a telescope? What can I expect to see? This wonderful informal guide to astronomy has all the information an absolute beginner needs to get started. It explains the basic techniques and equipment you need for exploring the night sky, from observing with the naked eye to using binoculars and telescopes. It then takes you on a tour of the night sky, covering the Moon, Sun, stars, planets, and more. The book gives sound advice on purchasing affordable binoculars, telescopes, and accessories, and is illustrated with photos taken by the author, showing how objects in the sky actually look through modest amateur equipment. Whether you are a parent thinking of buying a telescope for your children, or a newcomer yourself, this book has all you need to know to take the first steps into the fascinating world of astronomy.

Practical Astronomy with your Calculator - Peter Duffett-Smith 1989-02-02

Practical Astronomy with your Calculator, first published in 1979, has enjoyed immense success. The author's clear and easy to follow routines enable you to solve a variety of practical and recreational problems in astronomy using a scientific calculator. Mathematical complexity is kept firmly in the background, leaving just the elements necessary for swiftly making calculations. The major topics are: time, coordinate systems, the Sun, the planetary system, binary stars, the Moon, and eclipses. In the third edition there are entirely new sections on generalised coordinate transformations, nutrition, aberration, and

selenographic coordinates. The calculations for sunrise and moonrise are improved. A larger page size has increased the clarity of the presentation. This handbook is essential for anyone who needs to make astronomical calculations. It will be enjoyed by amateur astronomers and appreciated by students studying introductory astronomy. • Clear presentation • Reliable approximations • Covers orbits, transformations, and general celestial phenomena • Can be used anywhere, worldwide • Routines extensively tested by thousands of readers round the world

Stargazing - Patrick Moore 2001

Patrick Moore's illustrated month-by-month guide to astronomy with the naked eye.

Asteroids and Dwarf Planets and How to Observe Them - Roger Dymock 2010-11-01

Dwarf planets (which were formerly called asteroids except for the planet Pluto), and the smaller Solar System bodies still called asteroids today, are making front page news, particularly those that are newly discovered and those that might present a hazard to life on Earth by impacting our planet. In this age of giant telescopes and space probes, these small Solar System bodies have advanced from being tiny points of light to bodies worthy of widespread study. This book describes the dwarf planets and asteroids themselves, their origins, orbits, and composition, and at how amateur astronomers can play a part in their detection, tracking, and imaging. The book is divided into two parts. Part I describes physical properties (including taxonomic types) of dwarf planets and asteroids, how they formed in the early life of the Solar System, and how they evolved to their present positions, groups, and families. It also covers the properties used to define these small Solar System bodies: magnitude, rotation rates (described by their light-curves), and orbital characteristics. Part II opens with a description of the hardware and software an amateur or practical astronomer needs to observe and also to image asteroids. Then numerous observing techniques are covered in depth. Finally, there are lists of relevant amateur and professional organizations and how to submit your own observations to them.