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Patrick Moore's Data Book of Astronomy

The second edition of *Observing and Measuring Visual Double Stars* (2004) is the definitive book for those who are serious about this fascinating aspect of astronomy. It deals with equipment (you can start modestly with commercial or even home-made instruments), observing methods using binoculars upwards to advanced instrumentation and techniques, including speckle interferometry. The astronomy of double stars, including orbital calculation, is given its own section. This second edition of this popular book contains a significant amount of completely new material, inspired by the work done by observers – particularly in the USA – since the first edition was published. This includes the use of the Internet to carry out astrometry (precise astronomical measurement) using existing survey plates and films. The new edition contains an excellent guide to sketching double stars, a topic not previously covered. In addition, there is information about how to image double stars of unequal brightness, always a difficult matter but now somewhat easier because of advances in hardware and image-processing software. Nearly all of the chapters and tables have been updated. The CD-ROM that accompanied the first edition of *Observing and Measuring Visual Double Stars* is replaced by access to the Springer Extras web site. The extra information includes the complete Washington Double Star and Tycho-2 Catalogs. There is an extensive database of astrometric, double-and multiple-star formation, including positions, orbits, separations, and magnitudes, and a software suite that implements many of the calculations and equations featured in the book.

Patrick Moore on Mars

Deep-Sky Video Astronomy

Any amateur astronomer who is interested in astrophotography, particularly if just getting started, needs to know what objects are best for imaging in each month of the year. These are not necessarily the same objects that are the most spectacular or intriguing visually. The camera reveals different things and has different requirements. What objects in the sky tonight are large enough, bright enough, and high enough to be photographed? This book reveals, for each month of the year, the choicest celestial treasures within the reach of a commercial CCD camera. Helpful hints and advice on framing, exposures, and filters are included. Each deep sky object is explained in beautiful detail, so that observers will gain a richer understanding of these astronomical objects. This is not a book that dwells on the technology of CCD, Webcam, wet, or other types of astrophotography. Neither is it a book about in-depth computer processing of the images (although this topic is included). Detailed discussions of these topics can be found in other publications. This book focuses on what northern latitude objects to image at any given time of the year to get the most spectacular results.

Confessions of a Greenpeace Dropout

Throughout his distinguished career, Patrick Moore has, without a doubt, done more to raise the profile of astronomy among the British public than any other figure in the scientific world. As the presenter of *The Sky at Night* on BBC television for nearly 50 years he was honored with an OBE in 1968 and a CBE in 1988. In 2001 he was knighted 'for services to the popularisation of science and to broadcasting'. The BBC first aired *The Sky at Night* in April 1957 and it is now in the record books as the world's longest running TV series with the same presenter. He is also the author of over 60 books on astronomy, all of which, including his autobiography have been written on his 1908 typewriter. Partly thanks to his larger-than-life personality, Sir Patrick's own fame extends far beyond astronomical circles. A self-taught musician and talented composer, he has displayed his xylophone-playing skills at the Royal Variety Performance and as a passionate supporter of cricket, he has played for the Lord's Taverners charity cricket team.

The Mighty Street Sweeper

Few planets have gripped the human imagination like Mars. An undisputed expert on the subject tells the full story, from ancient myths to contemporary fact. This well-illustrated, engrossing account explains Mars's place in the solar system, as

well as its structure, surface, mountains, volcanoes, impact craters, ice caps, atmosphere, and weather. Careful consideration is given to the possibility of life on the planet in light of the latest evidence. And this updated edition contains a new chapter examining all the Rover missions, coverage of the high-profile Spirit and Opportunity missions, and the latest information on Climate Orbiter, Odyssey, Polar Lender and Global Surveyor.

Binocular Astronomy

The moon has always been the most obvious feature in our night sky. It is our nearest celestial neighbour, orbiting the earth at an average distance of 384,400 kilometers, and is large enough to display significant detail even to the unaided eye. Our moon has drawn observers since the dawn of humankind, and all people have tried to make sense of the puzzles it poses and the questions it raises. The moon provided our ancient ancestors with one of the earliest means of keeping and measuring time, and many early religions had cults that worshipped it. When it eclipses the sun it provides one of the most awe-inspiring views in nature. In *The Moon*, celebrated amateur astronomer Bill Leatherbarrow provides expert insight into the history of our study of this compelling astronomical body. Drawing on his own decades of lunar observation, he describes how and why the observation and study of the moon has evolved, particularly in the age of telescopic study. He also offers an overview of current scientific thinking and developments in lunar science

since the advent of the Space Age, even providing practical advice on how to make your own observations of the moon. Extensively illustrated with images of the lunar surface taken both from spacecraft and using amateur equipment, this book is an accessible introduction to complex astrophysical concepts that will give all amateur astronomers and anyone fascinated by this natural satellite something to moon over.

Astronomical Spectroscopy for Amateurs

Although the street cleaner may not be as fast, large, or powerful as some other vehicles, it is the only truck that can perform the very important task of keeping the roads clean.

Navigating the Night Sky

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.

Astrophysics is Easy!

Amateur astronomy is becoming increasingly popular, mostly because of the availability of relatively low-cost astronomical telescopes such as the Schmidt-Cassegrain and Maksutovs. The author describes what these instruments will do, how to use them, and which are the best - he draws on 25-years of experience with telescopes. There are sections on accessories, observing techniques, and hints and tips on: cleaning, collimating, maintaining the telescope, mounting, using the telescope in various conditions, computer control, and imaging (wet, digital and CCD). This is the perfect book for amateur astronomers who are about to invest in a new Schmidt-Cassegrain or Maksutov telescope, or for those who already have one and want to get the most out of it.

Tweaked: A Crystal Meth Memoir

Dr. Moore shares an engaging firsthand account of his many years spent as the ultimate Greenpeace insider, a co-founder, and leader in the organization's top

committee. Moore explains why, 15 years after co-founding it, he left Greenpeace to establish a more sensible, science-based approach to environmentalism.

Beyond Shame

The celebrated annual for sky-watchers and stargazers, including references and a variety of fascinating articles. The Yearbook of Astronomy series is known for its comprehensive jargon-free monthly sky notes and authoritative sky charts that enable backyard astronomers and sky-gazers everywhere to plan their viewing of the year's eclipses, comets, meteor showers, and minor planets, as well as detailing the phases of the moon and visibility and locations of the planets throughout the year. Every annual edition also includes a variety of entertaining and informative articles. Among the wide-ranging articles in this edition are: 200 Years of the Royal Astronomical Society The Naming of Stars Astronomical Sketching Dark Matter and Galaxies Eclipsing Binaries The First Known Black Hole A Perspective on the Aboriginal View of the World, and more First appearing in 1962, shortly after the dawning of the Space Age, Yearbook of Astronomy continues to be essential reading for any sky-watcher or stargazer, amateur and professional alike, who wants to expand their knowledge of the universe and its wonders.

Yearbook of Astronomy 2020

Astronomical Spectroscopy for Amateurs is a complete guide for amateur astronomers who are looking for a new challenge. After a brief overview of the development of spectroscopes and an introduction to the theory of stellar spectra, the book goes on to examine the various types of spectroscopes available to amateurs. Next, practical sections address all aspects of setting-up and using various types of commercially-available and home-built spectroscopes. A final part gives detailed instructions for the design and construction of three different spectroscopes, along with the necessary design theory (minimal math). The home-made spectroscopes have performance capabilities near or equal to commercial units but are constructed using basic hand tools for a fraction of the cost! This up-to-date practical spectroscopy book will enable amateur astronomers to develop the skills and equipment needed to prepare scientifically acceptable spectra data, and to make a valuable contribution to ProAm projects.

Scientific Astrophotography

Casual stargazers are familiar with many classical figures and asterisms composed of bright stars (e.g., Orion and the Plough), but this book reveals not just the constellations of today but those of yesteryear. The history of the human

identification of constellations among the stars is explored through the stories of some influential celestial cartographers whose works determined whether new inventions survived. The history of how the modern set of 88 constellations was defined by the professional astronomy community is recounted, explaining how the constellations described in the book became permanently “extinct.” Dr. Barentine addresses why some figures were tried and discarded, and also directs observers to how those figures can still be picked out on a clear night if one knows where to look. These lost constellations are described in great detail using historical references, enabling observers to rediscover them on their own surveys of the sky. Treatment of the obsolete constellations as extant features of the night sky adds a new dimension to stargazing that merges history with the accessibility and immediacy of the night sky.

Observing and Measuring Visual Double Stars

"There are moments when I suddenly realize that I'm a nice boy from Iowa who is entirely comfortable sitting in a room of freaks." So begins Patrick Moore's unforgettable account of life as a crystal meth addict—a "tweaker." Like a wild ride down Alice's rabbit hole with a guide who is darkly funny and heartbreakingly honest, Tweaked chronicles a twenty-year trip that stretches from Moore's lonely childhood in Iowa with his grandmother, Zelma—an alcoholic artist who, when loaded, turns frozen food into crafts projects—to the day he sits, naked, in a Los

Angeles rental, hallucinating about psycho-robbers while talking to a possum he's sure is God. Along the way, there are acid trips at the V.F.W., Dexetrim study halls with his Bad Girl Posse in the seventies, teeth-grinding nights of dancing and anonymous sex in New York City's hottest eighties clubs, taking pictures of Andy Warhol, losing friends and lovers, and navigating a Byzantine underworld of cooks, users, club kids, dealers, and colorful characters as intense as the drug itself. There is Lee, the glamorous, outré bad boy with a devastating wit and a taste for danger; Tony, the tweaker who likes to remove his eyebrows; Ding-Dong, the Depends-wearing, nearly blind housemate; Hisako, the artist and squatter with an impenetrable Japanese accent and a fondness for hot plate cooking; "Mother" Judy, the tough, butch rehab counselor who takes no prisoners, and countless others on the road from crystal meth hell to eventual sobriety. Candid, gripping, and ultimately triumphant, *Tweaked* is that rarest of memoirs—a tale so vivid and personal in the telling it feels like fiction, but every word is true.

The Amateur Astronomer

Where do you start to write about colors in the universe? Do you look to the deepest ocean trenches on Earth, with their awesome bioluminescent creatures roaming the blackness of the abyss? And where do you finish? With the most distant galaxies in the cosmos? A difficult question, perhaps, but in between the two extremes, there is so much to marvel at that it really doesn't matter where

you start or end, as long as you note the staggeringly beautiful and complex examples of color there are and that each should, if possible, be represented in some way. Whether staring up at the sky when surprised by the sudden appearance of a vividly colored band of light that is a rainbow or peering through a telescope to view colors further afield, the origin and complexity of the source of light is witness to the wonderful and majestic world and the universe in which we live. An attempt has been made here not only to create a picture gallery of the universe, but also to provide brief explanations or interpretation of the colors and, where appropriate, to give hints on how to capture pictures easily yourself, without spending lots of money. As illustrated in the introduction, paying attention to just a few basic camera settings, it is possible to turn a blurred snapshot into a detailed and pin sharp picture worthy of framing and hanging on the wall.

Astronomy and Space

Provide the reader with everything he needs to know about what to observe, and using some of today's state-of-the-art technique and commercial equipment, how to get superb views of faint and distant astronomical objects. Only guide to live observation of deep space, utilizing modern image enhancement techniques (image intensifiers and CCD video monitors) Detailed information supplied on the image intensifiers and CCD video monitors Explains how to select and prepare sites for live viewing.

Patrick Moore's Yearbook of Astronomy 2016

This entertaining text details the methods and techniques employed by non-professional astronomers from all over the world, providing a wonderful resource for anyone wishing to build a small observatory of almost any kind. Its a fun read, too. Almost every amateur astronomer dreams of having a fixed observatory - this provides ideas and constructional details. Ideas from around the world. Written for a broad audience, including non-astronomers.

The Observer's Year

Celebrating the 55th anniversary of *The Sky at Night*, this book collects and answers questions sent in by viewers. With sections on the solar system, the bizarre and unexplained, space missions, and more, this is an exciting journey into space for the novice astronomer and the lifelong stargazer alike. Discover how scientists work out the gravity of planets, what the 'Great Attractor' is and the basic principles of space navigation. Learn how to start observing the sky, what event inspired Patrick Moore to take up astronomy, and just how many of his cats are named after celestial bodies. From comets to black holes and Orion to eclipses, *The Sky at Night* is the ultimate introduction to the wonders and mysteries of the universe.

Visual Astronomy Under Dark Skies

Until his death in 2012, world-renowned astronomer and broadcaster Sir Patrick Moore edited this indispensable guide to the wonders of the night sky for fifty-two consecutive years. With the 2016 Yearbook of Astronomy, his friend and long-time co-editor Dr John Mason continues Sir Patrick's legacy. The Yearbook of Astronomy collects together a month-by-month guide to events to look out for over the coming year, from eclipses and planets, to comets, meteors, nebulae and phases of the Moon. It also contains authoritative charts, astronomical data and a series of specially commissioned articles by some of the world's leading astronomers - a fitting ongoing tribute to an extraordinary man who popularized astronomy for over half a century. 'This hardy annual has deservedly become a mainstay for all enthusiasts . . . It is to be hoped that the Yearbook of Astronomy will long continue and carry Patrick's name far into the future' (Astronomy Now)

The Sky at Night

This book contains everything an astronomer needs to know about binocular observing. The book takes an in-depth look at the instruments themselves. It has sections on evaluating and buying binoculars and binocular telescopes, their care, mounting, and accessories. In addition there is a selection of fifty fine objects to be

seen with 50mm and 100mm binoculars. The advantages of using both eyes for astronomical observing are many and considerable, largely because of the way the human brain processes visual information. This book enables the astronomer to maximize those advantages.

The Lost Constellations

Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It will also be a useful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging. This book is not about making beautiful astronomical images; it is about recording astronomical images that are scientifically rigorous and from which accurate data can be extracted. This book is unique in that it gives readers the skills necessary for obtaining excellent images for scientific purposes in a concise and procedurally oriented manner. This not only gets the reader used to a disciplined approach to imaging to maximize quality, but also to maximize the success (and minimize the frustration!) inherent in the pursuit of astrophotography. The knowledge and skills imparted to the reader of this handbook also provide an excellent basis for “beautiful picture” astrophotography! There is a wealth of information in this book – a distillation of ideas and data presented by a diverse set of sources and based

on the most recent techniques, equipment, and data available to the amateur astronomer. There are also numerous practical exercises. Scientific Astrophotography is perfect for any amateur astronomer who wants to go beyond just astrophotography and actually contribute to the science of astronomy.

Patrick Moore

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Choosing and Using a Refracting Telescope

This little book is about cats; cats of all shapes, sizes and colors, and specifically about those that have shared their lives with the great and well-respected astronomer, Sir Patrick Moore CBE FRS, over a lifetime of 80 years. This is Patrick's very personal account of the cats that have been part of his family. The fascinating and engrossing text is complemented by personal photographs of Sir Patrick, his adored mother, Gertrude (also a cat-lover), and the many cats that have filled Patrick's life with love and companionship.

Patrick Moore's Astronomy

Mayors Richard M. Daley and Rahm Emanuel have touted and promoted Chicago as a "world class city." The skyscrapers kissing the clouds, the billion-dollar Millennium Park, Michelin-rated restaurants, pristine lake views, fabulous shopping, vibrant theater scene, downtown flower beds and stellar architecture tell one story. Yet, swept under the rug is the stench of segregation that compromises Chicago. The Manhattan Institute dubs Chicago as one of the most segregated big cities in the country. Though other cities - including Cleveland, Los Angeles, and Baltimore - can fight over that mantle, it's clear that segregation defines Chicago. And unlike many other major U.S. cities, no one race dominates. Chicago is divided equally into black, white, and Latino, each group clustered in their various turfs. In this intelligent and highly important narrative, Chicago-native Natalie Moore shines a light on contemporary segregation on the South Side of Chicago through reported essays, showing the life of these communities through the stories of people who live in them. The South Side shows the important impact of Chicago's historic segregation - and the ongoing policies that keep it that way.

The Data Book of Astronomy

This book will interest anyone who marvels at the night sky and would like to learn to recognise constellations and identify the brightest stars by name. Step-by-step, the reader is guided through the knowledge needed to recognise key constellations, identify stars and planets, and interpret changes in the overall

appearance of the sky throughout the year.

Astronomy

Filled with data about the Earth, Moon, the planets, the stars, our Galaxy, and the myriad galaxies in deep space, this invaluable resource reveals the latest scientific discoveries about black holes, quasars, and the origins of the Universe. It includes maps supported by detailed tables of the names, positions, magnitudes, and spectra of the main stars in each constellation along with key data on galaxies, nebulae, and clusters. MNASSA wrote, "This book fills a niche with detailed astronomical data and concise explanations, all at an accessible level it is an excellent resource, and probably will be the first book I shall reach for."

The Moon

Since the advent of astronomical CCD imaging it has been possible for amateurs to produce images of a quality that was attainable only by universities and professional observatories just a decade ago. However, astronomical CCD cameras are still very expensive, and technology has now progressed so that digital cameras - the kind you use on holiday - are more than capable of photographing the brighter astronomical objects, notably the Moon and major planets. Tony Buick

has worked for two years on the techniques involved, and has written this illustrated step-by-step manual for anyone who has a telescope (of any size) and a digital camera. The color images he has produced – there are over 300 of them in the book – are of breathtaking quality. His book is more than a manual of techniques (including details of how to make a low-cost DIY camera mount) and examples; it also provides a concise photographic atlas of the whole of the nearside of the Moon – with every image made using a standard digital camera – and describes the various lunar features, including the sites of manned and robotic landings.

How to Photograph the Moon and Planets with Your Digital Camera

Deep-Sky Video Astronomy is a concise guide to using modern integrating video cameras for deep-sky viewing and imaging with the kinds of modest telescopes available commercially to amateur astronomers. It includes an introduction and a brief history of the technology, camera types, etc. The authors then examine the pros and cons of this unrefrigerated yet highly efficient technology, which is already beginning to compete with expensive astronomical cooled-chip CCD cameras in quality and ease of use. There is a thorough examination of accessories used to achieve particular results. Examples are focal reducers, Barlow lenses, and

optical filters. However, the focus is mostly on the practical side of creating beautiful and detailed astronomical portraits using image-stacking software, enhancement tools like PhotoShop, and creating color images with a black-and-white camera. Practical step-by-step examples supported by tried and trusted tips show how to achieve the best possible deep-sky video portrait!

The Modern Amateur Astronomer

Patrick Moore's painstakingly researched, beautifully illustrated guide to astronomical observation for casual and serious observers.

Astronomy with a Budget Telescope

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

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The 100 Best Astrophotography Targets

Along with its companion book, *The Observational Amateur Astronomer*, this is a comprehensive guide for every amateur astronomer who wants to do more than just stargaze. Each chapter has been written by a well-known professional or amateur astronomer, chosen for their specialist knowledge. Topics range from buying a telescope (or making your own), via electronic equipment and accessories, to more technical aspects such as spectroscopy and astrophotography. Patrick Moore has edited the book overall into his easy, comprehensible style - known to millions of television viewers.

The South Side

For this new edition, the text has been brought fully up to date - and the period covered is from 2005 to 2010. Inevitably, this has meant that large sections of the

book have been completely rewritten. Much has happened since the first edition was published in 1998. Patrick Moore December 2004 v 00-OY2e_PRE(i-xvi).qxd

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Introduction It was once said that ‘the night sky always looks much the same’. In fact, nothing could be further from the truth. There are 365 days in each year (366 in a Leap Year!), and from an astronomical point of view no two are alike.

Exploring the Night Sky with Binoculars

"Patrick Moore boldly argues that the promiscuous gay men of the 1970s were actually artists and that AIDS derailed an esthetic community and sexual

adventure. This quietly personal book reclaims the past for young gay men and makes it useable."--Edmund White, author of *A Boy's Own Story* "A personal, tender, honest book about a past that can never be regained, but must not be forgotten." --Sarah Schulman, author of *After Delores* "Patrick Moore reminds us of the extravagant creativity of gay self-fashioning in the 1970s, in the hope that such historical awareness can help us bring about an extravagant, creative gay future."--Carolyn Dinshaw, Director of the Center for Gender & Sexuality, New York University "Moore's exceptional study considers those men who fashioned an underground gay life that still resonates today."--Felice Picano, author of *Like People In History* and a founding member of the Violet Quill Club

The Rainbow Sky

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 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!

Miaow!

Practical Statistics for Astronomers

Astrophysics is often - with some justification - regarded as incomprehensible without at least degree-level mathematics. Consequently, many amateur astronomers skip the math, and miss out on the fascinating fundamentals of the subject. In *Astrophysics Is Easy!* Mike Inglis takes a quantitative approach to astrophysics that cuts through the incomprehensible mathematics, and explains

the basics of astrophysics in accessible terms. The reader can view objects under discussion with commercial amateur equipment.

Choosing and Using a Schmidt-Cassegrain Telescope

Unlike in the past, many of today's inexpensive mail-order catalog telescopes provide excellent value and are proving to be useful instruments. Astronomy with a Mail-Order Telescope provides useful information on some of the available models, along with detailed and essential hints and tips about what to look for when buying. The second part of the book 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.

Long Bright River

AN INSTANT NEW YORK TIMES BESTSELLER! A GOOD MORNING AMERICA BOOK CLUB PICK "[Moore's] careful balance of the hard-bitten with the heartfelt is what elevates Long Bright River from entertaining page-turner to a book that makes you want to call someone you love." - The New York Times Book Review "This is police procedural and a thriller par excellence, one in which the city of Philadelphia itself

is a character (think Boston and Mystic River). But it's also a literary tale narrated by a strong woman with a richly drawn personal life – powerful and genre-defying.” – People "A thoughtful, powerful novel by a writer who displays enormous compassion for her characters. Long Bright River is an outstanding crime novel... I absolutely loved it." —Paula Hawkins, #1 New York Times-bestselling author of *The Girl on the Train* Two sisters travel the same streets, though their lives couldn't be more different. Then one of them goes missing. In a Philadelphia neighborhood rocked by the opioid crisis, two once-inseparable sisters find themselves at odds. One, Kacey, lives on the streets in the vise of addiction. The other, Mickey, walks those same blocks on her police beat. They don't speak anymore, but Mickey never stops worrying about her sibling. Then Kacey disappears, suddenly, at the same time that a mysterious string of murders begins in Mickey's district, and Mickey becomes dangerously obsessed with finding the culprit--and her sister--before it's too late. Alternating its present-day mystery with the story of the sisters' childhood and adolescence, *Long Bright River* is at once heart-pounding and heart-wrenching: a gripping suspense novel that is also a moving story of sisters, addiction, and the formidable ties that persist between place, family, and fate.

Observing the Messier Objects with a Small Telescope

Packed with up-to-date astronomical data about the Solar System, our Galaxy and the wider Universe, this is a one-stop reference for astronomers of all levels. It

gives the names, positions, sizes and other key facts of all the planets and their satellites; discusses the Sun in depth, from sunspots to solar eclipses; lists the dates for cometary returns, close-approach asteroids, and significant meteor showers; and includes 88 star charts, with the names, positions, magnitudes and spectra of the stars, along with key data on nebulae and clusters. Full of facts and figures, this is the only book you need to look up data about astronomy. It is destined to become the standard reference for everyone interested in astronomy.

More Small Astronomical Observatories

This 2000 Edition of Sir Patrick Moore's classic book has been completely revised in the light of changes in technology. Not only do these changes include commercially available astronomical telescopes and software, but also what we know and understand about the universe. There are many new photographs and illustrations. Packs a great deal of valuable information into appendices which make up almost half the book. These are hugely comprehensive and provide hints and tips, as well as data (year 2000 onwards) for pretty well every aspect of amateur astronomy. This is probably the only book in which all this information is collected in one place.

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