

Burnham S Celestial Handbook Volume One An Observer S Guide To The Universe Beyond The Solar System Robert Burnham

David Levy's entertaining, well-researched book is aimed at the amateur enthusiast who likes to learn enjoyably. Beginning with advice on binoculars and telescopes, and how to observe the night sky effectively, the author goes on to describe thoroughly the field of variable star observation, a field in which amateurs have made important contributions. He shows how to interpret variations in light output in terms of the life of a star, from birth through to sometimes violent death. All of the major variable stars are described and classified, as well as other variable objects such as active galaxies, asteroids, comets and the sun. The book also contains a guide to the seasonal night sky. Throughout, practical observations serve to complement the text, producing an exciting, very readable introduction to this fascinating subject. A black hole isn't really a hole . . . is it? Get ready to S-T-R-E-T-C-H your mind with this beloved and best-selling science book. Updated with an all-new chapter about the first black-hole image ever! What are black holes, what causes them, and how the heck did scientists discover them? Acclaimed STEM writer Carolyn DeCristofano's playful text shares how astronomers find black holes, introduces our nearest black-hole neighbors, and provides an excellent introduction to an extremely complex scientific topic. Gorgeous space paintings supplement real telescopic images, and funny doodles and speech bubbles keep the content light and fun.

The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon.

Volume I of a comprehensive three-part guide to celestial objects outside our solar system ranges from Andromeda to Cetus. Features coordinates, classifications, physical descriptions, hundreds of visual aids. 1977 edition.

The Village Idiot

The Old Stones

Updated Edition

An Observer's Guide to the Universe Beyond the Solar System. A Descriptive Catalog and Reference Handbook of Deep-sky Wonders for the Observer, Student, Research Worker, Amateur Or Professional Astronomer

Discovering the Universe through the Sky's Most Brilliant Stars

The Lost Constellations

Chronicling the Golden Age of Astronomy

The 110 star clusters, nebulae and galaxies of Messier's catalog are among the most popular of all the deep sky objects and are beautiful targets for amateur observers of all abilities. This stunning new atlas presents a complete and lively account of all of the Messier objects. Details for each object given include a thoroughly-researched history of its discovery, historical observations and anecdotes, the latest scientific data detailing its astrophysical findings, and clear observational descriptions from naked eye through to large telescopes. In addition, this atlas has some of the world's finest color astrophotos, inverted and labelled photos pointing to hidden details and neighboring objects, as well as historical sketches alongside new deep sky drawings. Quite simply, this is the most far-reaching and beautiful reference on the Messier objects there has ever been, and one that no observer should be without!

Winner of Current Archaeology's Book of the Year The most comprehensive and thought-provoking field guide to the iconic standing stones and prehistoric sites of Britain and Ireland The ultimate insiders' guide, The Old Stones gives unparalleled insight into where to find prehistoric sites and how to understand them, by drawing on the knowledge, expertise and passion of the archaeologists, theorists, photographers and stones aficionados who contribute to the world's biggest megalithic website—the Megalithic Portal. Including over 30 maps and site plans and hundreds of color photographs, it also contains scores of articles by a wide range of contributors—from archaeologists and archaeoastronomers to dowsers and geomancers—that will change the way you see these amazing survivals from our distant past. Locate over 1,000 of Britain and Ireland's most atmospheric prehistoric places, from recently discovered moorland circles to standing stones hidden in housing estates. Discover which sites could align with celestial bodies or horizon landmarks. Explore acoustic, color, and shadow theory to get inside the minds of the Neolithic and Bronze Age people who created these extraordinary places. Find out which sites have the most spectacular views, which are the best for getting away from it all and which have been immortalized in music. And don't forget to visit the Megalithic Portal website and get involved by posting your discoveries online. Contributors include: Vicki Cummings | Robert Hensey | Joshua Pollard | Kenneth Brophy | Anne Teather | Barney Harris | John Barnatt | Adam Welfare | Kirsty Millican | Terence Meaden | Gail Higginbottom | Liz Henty | Sandy Gerrard | Ian McNeil Cooke | Penelope Foreman All royalties from this book go to support the running of the Megalithic Portal: www.megalithic.com.

Exploring the surprising connection between time and place, a companion book to the National Air and Space Museum exhibition of the same name traces the history of navigation, showing where we have been, how far we have come and where we are going.

Useful guide tells where to look for planets in Earth's solar system, as well as asteroids such as Ceres and Juno, open star clusters, diffuse nebulas, supernova remnants, spiral galaxies, and other phenomena.

The Brightest Stars

A Field Guide to the Megalithic Sites of Britain and Ireland

an observer's guide to the Universe beyond the solar system

An Anthology of Visual Double Stars

Burnham's Celestial Handbook, Volume Two

A Handbook for Amateur Observers

The Universe Today Ultimate Guide to Viewing The Cosmos

Celestial Delights is essentially a 'TV Guide' for the sky. This will be its third edition. This title, which has aggregated sales of about 20,000 copies to date in its two previous editions and has found a niche with skygazers, is much awaited. Through extensive graphics integrated with an eight-year-long calendar of sky events, it provides a look at "don't miss" sky events, mostly for naked-eye and binocular observing. The book is organized by ease of observation - lunar phases and the brighter planets come first, while solar eclipses, the aurora, and comets come later. Celestial Delights also includes a hefty dose of sky lore, astronomical history, and clear overviews of current science. It provides a handy reference to upcoming naked-eye events, with information broken out in clear and simple diagrams and tables that are cross-referenced against a detailed almanac for each year covered. Most broad-ranging astronomy field guides focus on stars, constellations, and the deep sky, but tend to ignore planetary events, which are in by far the most widely observable aspects of the changing night sky. Celestial Delights puts a variety of information all in one place, presents it in a friendly way that does not require prior in-depth astronomical knowledge, but provides the context and historical background for understanding events that astronomical computer programs or web sites lack.

All three volumes sold as a combined set for a one-time purchase! This comprehensive three-volume set takes you on an incomparable journey of our closest celestial neighbor. Not since the golden age of 19th-century lunar guidebooks

has one author managed to cover the Moon in such detail as this all-in-one handbook. Volume 1 begins with a section on the Moon's place in human history, mythology and lore, before gravitating closer to the Moon itself through scientific sections on the Earth-Moon system, lunar motions and cycles. Following these are technical chapters on how to purchase, use and care for lunar observing and photography equipment. Techniques for observing the Moon (both with the naked eye and optical instruments) are detailed as the reader approaches the Moon's surface on this visual tour-de-force. A close-up exploration of the Moon is the result. The "crater-hop" chapters in Volumes 1 and 2 discuss the physical aspects of the Moon's features, offering brief biographical information on the person for whom the feature is named, as well as how each individual was involved in the development of science and selenography from ancient to modern times. Volume 3 contains a plethora of useful appendices that cover a range of topics, from catalogues of lunar features such as nearside lunar domes to a comprehensive list of publishers and observing organizations. *Luna Cognita* goes far beyond any recent work in both breadth and depth of coverage on the Moon. Written in an accessible, engaging manner for readers of all backgrounds and levels of expertise, this handbook is thus an invaluable resource for anybody who looks up at the glowing sphere in the night sky and wants to learn more about the "Known Moon." Provides information about the moon, star charts and monthly sky maps covering that which is visible each month in different hemispheres.

In this enthralling cosmic journey through space and time, astrophysicist Jillian Scudder locates our home planet within its own 'family tree'. Our parent the Earth and its sibling planets in our solar system formed within the same gas cloud. Without our grandparent the Sun, we would not exist, and the Sun in turn relies on the Milky Way as its home. The Milky Way rests in a larger web of galaxies that traces its origins right back to tiny fluctuations in the very early universe. Following these cosmic connections, we discover the many ties that bind us to our universe. Based around readers' questions from the author's popular blog 'Astroquizzical', the book provides a quirky guide to how things work in the universe and why things are the way they are, from shooting stars on Earth, to black holes, to entire galaxies. For anyone interested in the 'big picture' of how the cosmos functions and how it is all connected, Jillian Scudder is the perfect guide.

Highlights of the Deep Sky

A Tour of the Universe with Sky and Telescope's Sue French

People with Real Lives Don't Need Landscapes

Webb Society Deep-sky Observer's Handbook

Fossil Collecting in the Mid-Atlantic States

Luna Cognita

The Penguin Book of Hell

A wild, effervescent, absinthe-soaked novel that tells of the life of the extraordinary artist Chaim Soutine Steve Stern's astonishing new novel *The Village Idiot* begins on a glorious spring day in Paris 1917. Amid the carnage of World War I, some of the foremost artists of the age have chosen to stage a boat race. At the head of the regatta is Amedeo Modigliani, seated regally in a bathtub pulled by a flock of canvasback ducks. But unbeknownst to the competition, he has a secret advantage: his young friend, the immigrant painter Chaim Soutine, is hauling the tub from underwater. Soutine, an unwashed, misfit artist (who incidentally can't swim) has been persuaded by the Italian to don a ponderous diving suit and trudge along the floor of the river Seine. Disoriented and confused by the artificial air in his helmet Chaim stumbles through the events of his past and future life. It's quite an extraordinary life. From his impoverished beginnings in an East European shtetl to his equally destitute days in Paris during the *Années Folles*, the Crazy Years, from the Cinderella patronage of the American collector Albert Barnes, who raises him from poverty to international attention, to his perilous flight from the Nazi occupation of France, Chaim Soutine remains driven by his unrelenting passion to paint. To be sure, there are notable distractions, such as his unlikely friendship with Modigliani, who drags him from brothels to midnight felonies to a duel at dawn; there are the romances with remarkable women who compete with and sometimes salvage his obsession. But there is also, always on the horizon, the coming storm that threatens to sweep away Chaim and a generation of gifted Jewish refugees from a tradition that would outlaw their longing to make art. Wildly inventive, as funny as it is heart-breaking, *The Village Idiot* is a luminous fever-dream of a novel, steeped in the heady atmosphere of a Paris that was the cultural capital of the universe, a place where anything seemed possible.

"The quality of the deep-sky images is outstanding--a tribute to the various photographers as well as the book's printer. But it's the written word that will make or break a book like this, and Sue's writing is superb... [For] an occasional stargazer, a serious observer, or anyone in between, you won't go wrong with *Deep-Sky Wonders*. This is a great introduction to deep-sky stargazing for novice and experienced amateur astronomers alike." --Mercury, publication of the Astronomical Society of the Pacific Sue French writes the popular column "Deep-Sky Wonders" for *Sky and Telescope* magazine and also teaches deep sky observation. She has earned a loyal following among enthusiasts and is welcomed by beginners for her skill at presenting astronomy in an understandable way. After selling 10,000 copies of *Deep-Sky Wonders* in hardcover, we expect a good response for this paperback edition at an accessible price. *Deep-Sky Wonders* is a collection of 100 of French's best "Deep-Sky Wonders" columns originally published in *Sky and Telescope*, which has a monthly readership exceeding 100,000. The book is organized by season and subdivided into months for a total of 100 in-depth tours of the deep sky. Each deep sky tour illuminates little-known seasonal wonders that lie off the beaten path. Features include: Full-color photographs and detailed sketches of each deep sky tour Descriptions of double and variable stars, star clusters, nebulae, galaxies and exotics Historical and scientific background of particular interest A tabular listing of the deep-sky sites Color charts showing the position of each target in the night sky An index to all of the deep-sky objects covered. *Deep-Sky Wonders* also features a variety of challenging objects that encourage observers to test the limits of their equipment and skills. Suitable for

beginner and intermediate small-scope astronomers as well as large-scope viewers and astrophotographers, this book will be greeted enthusiastically by all Sky and Telescope readers. It is also an outstanding introduction to deep-sky viewing for novice observers.

In this important new book the renowned historian Serge Gruzinski returns to two episodes in the sixteenth century which mark a decisive stage in global history and show how China and Mexico experienced the expansion of Europe. In the early 1520s, Magellan set sail for Asia by the Western route, Cortes seized Mexico and some Portuguese based in Malacca dreamed of colonizing China. The Aztec Eagle was destroyed but the Chinese Dragon held strong and repelled the invaders - after first seizing their cannon. For the first time, people from three continents encountered one other, confronted one other and their lives became entangled. These events were of great interest to contemporaries and many people at the time grasped the magnitude of what was going on around them. The Iberians succeeded in America and failed in China. The New World became inseparable from the Europeans who were to conquer it, while the Celestial Empire became, for a long time to come, an unattainable goal. Gruzinski explores this encounter between civilizations that were different from one another but that already fascinated contemporaries, and he shows that our world today bears the mark of this distant age. For it was in the sixteenth century that human history began to be played out on a global stage. It was then that connections between different parts of the world began to accelerate, not only between Europe and the Americas but also between Europe and China. This is what is revealed by a global history of the sixteenth century, conceived as another way of reading the Renaissance, less Eurocentric and more in tune with our age.

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.

Burnham's Celestial Handbook, Volume Three

An Observer's Guide to the Universe Beyond the Solar System

Andromeda-Cetus

300-Plus Showpieces of the Heavens for Telescope Viewing and Contemplation

Astroquizzical

Chamaeleon-Orion

Globalization and European Dreams of Conquest in China and America in the Sixteenth Century

Put the Universe at your fingertips with this dramatic and comprehensive look at the sky. Richly illustrated with hundreds of recent photographs and images from ground-based telescopes, the Hubble Space Telescope, and interplanetary spacecraft, Atlas of the Universe is a definitive reference to the stars, the planets and their moons, and the universe. In addition to a beautiful and informative portrait of the cosmos, this book provides superb star charts with sound advice on practical observing. The book guides its reader through the universe in seven sections: exploring the universe, the solar system, the Sun, the stars, the universe, star maps, and practical astronomy. In addition to a beautiful and informative portrait of the cosmos, this book provides superb star charts with sound advice on practical observing. This is a highly suitable guide for amateurs with telescopes who want to explore the richness of astronomical knowledge and to learn the beauty of the night sky. Patrick Moore is one of the world's outstanding popularizers of astronomy and can count fifty years of experience presenting astronomy to general readers. His extensive body of work includes Exploring the Night Sky with Binoculars (Cambridge 1989 and 1996) and The Cambridge Guide to Stars and Planets (1997).

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.

Modern telescopes of even modest aperture can show thousands of double stars. Many are faint and unremarkable but hundreds are worth searching out. Veteran double-star observer Bob Argyle and his co-authors take a close-up look at their selection of 175 of the night sky's most interesting double and multiple stars. The history of each system is laid out from the original discovery to what we know at the present time about the stars. Wide-field finder charts are presented for each system along with plots of the apparent orbits and predicted future positions for the orbital systems. Recent measurements of each system are included which will help you to decide whether they can be seen in your telescope, as well as giving advice on the aperture needed. Double star observers of all levels of experience will treasure the level of detail in this guide to these jewels of the night sky.

Superbly illustrated, up-to-date, expanded version of Hartung's indispensable guide, useful to amateur and expert observers.

Seeing Is Forgetting the Name of the Thing One Sees

With Localities, Collecting Tips, and Illustrations of More Than 450 Fossil Specimens

Celestial Delights

The Cambridge Star Atlas

A Comprehensive Observer's Handbook of the Known Moon

Atlas of the Messier Objects

Astronomy

The planet Venus: orbit, appearance in our skies, the famous eight-year cycle, transits of the Sun, passages of the Pleiades, visits by spacecraft, amazing physical nature. And the goddess Venus, in Sumerian, Syrian, Greek, Roman myth. Very abundant illustrations: charts and sky scenes for years ahead, diagrams, paintings, sculptures. And abundant selections from the poetry and lore of Love.

Ancient astrologers declared stars "fixed" to distinguish them from wandering stars, which they called planets. This book is the distillation of two thousand years of astrological research. It is a comprehensive survey of fixed stars in natal & mundane astrology, the stars & constellations of medieval magic, and fixed stars in astrometeorology. Robson gives their traditional meanings & their effects when combined with planets & angles. Convenient tables & a comprehensive index make this volume easy to use. Included are some 110 named stars, as well as 48 ancient constellations & 60 modern ones. Arabic, Chinese & Hindu lunar mansions are also discussed. Since its first publication in 1923, this book has been the classic on fixed stars, the one to which everyone since has referred. About the author: Vivian Erwood Robson, 1890 - 1942, was a librarian by trade. Like many librarians he had a natural bent for research, and, in his particular case, astrology. He studied ancient astrologers closely, including Ptolemy & William Lilly. His books on fixed stars, electional astrology & relationships are 20th century classics. ar

The Definitive Resource for Viewing the Night Sky David Dickinson, Earth science teacher and backyard astronomer, and Fraser Cain, publisher of Universe Today, have teamed up to provide expert guidance on observing the night sky. The Universe Today Ultimate Guide to Viewing the Cosmos features the best tips and tricks for viewing our solar system and deep sky objects, as well as detailed charts, graphs and tables to find must-see events for years to come. This comprehensive guide is complete with stunning and exclusive photography from top night sky photographers, as well as advice on how to take your own incredible photos. Take your recreational viewing to the next level with activities like: Finding comets and asteroids Tracking variable stars Monitoring meteor showers Following solar activity Tracking satellites Timing lunar and asteroid occultations With star charts, practical background information, technological resources and telescope and astrophotography guides, this is the ultimate resource for any backyard space enthusiast.

Discusses the practical aspects of stargazing, including how to choose appropriate equipment, contending with light pollution, taking successful photographs of galaxies and nebulas, and selecting an observing site.

Venus, a Longer View

A History of Obsolete, Extinct, or Forgotten Star Lore

Celestial Harvest

Hartung's Astronomical Objects for Southern Telescopes

Burnham's celestial handbook

The Untold Story of Getting from Here to There

Observing Variable Stars

The most detailed guide to observing the deep sky in one volume, now available in paperback.

Describes the fossils of Pennsylvania, Delaware, Maryland, Virginia, and West Virginia, and how and where to hunt for them

"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.

"Robert Irwin, perhaps the most influential of the California artists, moved from his beginnings in abstract expressionism through successive shifts in style and sensibility, into a new aesthetic territory altogether, one where philosophical concepts of perception and the world interact. Weschler has charted the journey with exceptional clarity and cogency. He has also, in the process, provided what seems to me the best running history of postwar West Coast art that I have yet seen."—Calvin Tomkins

A User's Guide to the Moon

Expanded Edition

Burnham's Celestial Handbook

Deep-Sky Wonders

The Definitive Guide

A History of Visual Observing from Harriot to Moore

Everything You Need to Know to Become an Amateur Astronomer

The invention of the telescope at the dawning of the 17th century has revolutionized humanity's understanding of the Universe and our place within it. This book traces the development of the telescope over four centuries, as well as the many personalities who used it to uncover brand-new revelations about the Sun, Moon, planets, stars and distant galaxies. Starting with early observers such as Thomas Harriot, Galileo, Johannes Hevelius, Giovanni Domenico Cassini, Robert Hooke and Christian Huygens, the book explores how these early observers arrived at essentially correct ideas concerning the objects they studied. Moving into the 18th and 19th centuries, the author describes the increasing sophistication of telescopes both large and small, and the celebrated figures who used them so productively, including the Herschels, Charles Messier, William Lassell and the Earls of Rosse. Many great discoveries were also made with smaller instruments when placed in the capable hands of the

Struve dynasty, F.W. Bessel, Angelo Secchi and S.W Burnham, to name but a few. Nor were all great observers of professional ilk. The book explores the contributions made by the 'clerical astronomers,' William Rutter Dawes, Thomas William Webb, T.E.R Philips and T.H.E.C Espin, as well as the lonely vigils of E.E. Barnard, William F. Denning and Charles Grover. And in the 20th century, the work of Percival Lowell, Leslie Peltier, Eugene M. Antoniadi, Clyde Tombaugh, Walter Scott Houston, David H. Levy and Sir Patrick Moore is fully explored. Generously illustrated throughout, this treasure trove of astronomical history shows how each observer's work led to seminal developments in science, and providing key insights into how we go about exploring the heavens today.

**Offers comprehensive coverage of the numerous celestial objects outside our solar system
A big bouncy collection, displaying a voice quite unlike any other in New Zealand at the moment and one which has fruitful connections elsewhere. This is the kind of collection which makes other poets sit up and think and which startles and intrigues audiences.**

Volume III of a comprehensive three-part guide to celestial objects outside our solar system concludes with listings from Pavo to Vulpecula. Features coordinates, classifications, physical descriptions, hundreds of visual aids. 1977 edition.

The Best Astronomical Events Through 2020

The Fixed Stars And Constellations in Astrology

Time and Navigation

A Black Hole is Not a Hole

Observing Handbook and Catalogue of Deep-Sky Objects

Lunar Sourcebook

The Backyard Astronomer's Guide

Volume II of a comprehensive three-part guide to celestial objects outside our solar system ranges from Chamaeleon to Orion. Features coordinates, classifications, physical descriptions, hundreds of visual aids. 1977 edition.

"From the Bible through Dante and up to Treblinka and Guantánamo Bay, here is a rich source for nightmares." --The New York Times Book Review Three thousand years of visions of Hell, from the ancient Near East to modern America From the Hebrew Bible's shadowy realm of Sheol to twenty-first-century visions of Hell on earth, The Penguin Book of Hell takes us through three thousand years of eternal damnation. Along the way, you'll take a ferry ride with Aeneas to Hades, across the river Acheron; meet the Devil as imagined by a twelfth-century Irish monk--a monster with a thousand giant hands; wander the nine circles of Hell in Dante's Inferno, in which gluttons, liars, heretics, murderers, and hypocrites are made to endure crime-appropriate torture; and witness the debates that raged in Victorian England when new scientific advances cast doubt on the idea of an eternal hereafter. Drawing upon religious poetry, epics, theological treatises, stories of miracles, and accounts of saints' lives, this fascinating volume of hellscapes illuminates how Hell has long haunted us, in both life and death.

A Guide for the Beginner

Burnham's Celestial Handbook, Volume One

Atlas of the Universe

A Curious Journey Through Our Cosmic Family Tree

The Eagle and the Dragon