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The World at Night

A Good Girl's Guide to Murder

Star Vistas

The Astrophotography Manual

Capturing the Stars

Unveiling Galaxies

Astrophotography

The Complete Guide to Landscape Astrophotography

How to Photograph the Moon and Planets with Your Digital Camera

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Wil Tirion's Bright Star Atlas 2000.0 CRC Press

This unique volume by two renowned astrophotographers unveils the science and history behind 100 of the most significant astronomical images of all time. The authors have carefully selected their list of images from across time and technology to bring to the reader the most relevant photographic images spanning all eras of modern astronomical history. Based on scientific evidence today we have a basic notion of how Earth and the universe came to be. The road to this knowledge was paved with 175 years of astronomical images acquired by the coupling of two revolutionary technologies - the camera and telescope. With ingenuity and determination humankind would quickly embrace these technologies to tell the story of the cosmos and unravel its mysteries. This book presents in pictures and words a photographic chronology of our aspiration to understand the universe. From the first fledgling attempts to photograph the Moon, planets, and stars to the marvels of orbiting observatories that record the cosmos at energies beyond the range of human vision, astronomers have always relied on images to "break through" to the next level of understanding. A subset of these breakthrough images has profound significance in documenting some of the greatest milestones in modern astronomy.

Photographing the Deep Sky Taylor & Francis

Much is yet to be discovered about the fascinating large-scale structures of the universe. Bernard Abrams, former Director of the Deep-Sky section of the British Astronomical Association and Michael Stecker, a celebrated California-based astronomical photographer, explain what we currently know of the near and far universe and present some of the most spectacular astronomical photographs ever taken. The accompanying CD-ROM offers a veritable explosion of hundreds of beautiful color images that illustrate local and distant structures and galaxies.

Hawaii Nights Springer Science & Business Media

"This visual wellspring of the cosmos is the perfect companion for every stargazer. Filled with page after page of magnificent photographs, this book offers a deep dive into the past, present, and future of our home galaxy: the Milky Way. Embark on this dramatic journey by witnessing the stunning birth, life, and death of stars--including story of our own sun and the solar system it sustains. Continue on to discover our galaxy within the known universe with a scintillating peek at exoplanets, the new frontier in the search for life. Detailed maps and absorbing imagery from recent space missions illuminate the latest scientific information, complemented by a foreword by celebrated astronaut Chris Hadfield."-- Back cover.

Astrophotography on the Go Firefly Books

Discover 60 Deep Sky Objects that will considerably improve your Imaging and Processing skills! Whether you are a beginner, intermediate, or advanced astrophotographer, this detailed book of the best deep sky objects will serve as a personal guide for years to come! Discover which star

clusters, nebulae, and galaxies are the easiest and most impressive to photograph for each season. Learn how to find each object in the night sky, and read our recommendations on imaging them in a quick and comprehensive way. Each target listed in this guide contains our advice on imaging, photos of expected results, and a useful information table. We've also included a few cool facts about each target, a map to find it in the night sky, and more!

Visual Galaxy Quarto Publishing Group USA

Thousands of people learned astrophotography from the first two editions, now The Deep-sky Imaging Primer has been fully revised and expanded in this third edition. It has been updated to include the latest cameras, technology, and software. Everything you need to know about capturing and processing stunning images of deep-sky objects is covered. You'll learn about the fundamental principles of electronic cameras, optics, and mounts; how to choose the best camera and telescope for you; how to set up, choose exposure parameters, and take the images; where and when to find the best deep-sky objects; and how to process images. In addition to PixInsight® and Adobe Photoshop®, Affinity Photo® and AstroPixelProcessor® are now fully covered. Start-to-finish examples of image processing are included, with a focus on PixInsight. Full-color throughout with 373 illustrations.

Lessons from the Masters Delacorte Press

This book is based around the author's beautiful and sometimes awe-inspiring color images and mosaics of deep-sky objects. The book describes how similar "Hubble class" images can be created by amateur astronomers in their back garden using commercially available telescopes and CCD cameras. Subsequent processing and image enhancement in the "electronic darkroom" is covered in detail as well. A range of telescopes and equipment is considered, from the author's 11-inch with Hyperstar camera, down to more affordable instruments. Appendices provide links to free software - not available from a single source - and are themselves an invaluable resource.

Photoshop Astronomy Createspace Independent Pub

Finally, a compact, reasonably-priced atlas designed with imaging in mind! Seventy full-color charts cover the entire sky, with stars down to 9th magnitude and over 2000 deep-sky objects plotted in their correct size and shape, including many nebulae not found in visually-oriented atlases. 416 emission nebulae and supernova remnants, including the complete Sharpless (Sh2) and RCW catalogs. 171 reflection nebulae, including the complete van den Bergh (vdB) catalog. 146 planetary nebulae, including the complete Abell catalog 52 dark nebulae and molecular clouds 792 galaxies (larger than 3 arcminutes) 38 galaxy groups from the Abell and Hickson catalogs 108 globular clusters (larger than 5 arcminutes) 309 open clusters (larger than 5 arcminutes) The tabular index contains important details on each object, including a description, the best time of year to capture it, and the required field of view. With information on nearly every possible photographic target in the night sky, The Astrophotography Sky Atlas will help you choose your targets and plan your imaging. *Deep Sky* Rocky Nook, Inc.

The Astrophotography Manual, Second Edition is for photographers ready to move beyond standard

SLR cameras and editing software to create beautiful images of nebulas, galaxies, clusters, and the stars. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing and using equipment to image capture, calibration, and processing. This combination of technical background and hands-on approach brings the science down to earth, with practical methods to ensure success. This second edition now includes: Over 170 pages of new content within 22 new chapters, with 600 full-color illustrations. Covers a wide range of hardware, including mobile devices, remote control and new technologies. Further insights into leading software, including automation, Sequence Generator Pro and PixInsight Ground-breaking practical chapters on hardware and software as well as alternative astrophotography pursuits

The 100 Best Astrophotography Targets Springer

First published in 1999, this much expanded and updated edition of the best-selling handbook *Astrophotography for the Amateur* provides a complete guide to taking pictures of stars, galaxies, the Moon, the Sun, comets, meteors and eclipses, using equipment and materials readily available to the hobbyist. In this new edition, the book has been completely revised and now includes new chapters on computer image processing and CCD imaging; expanded advice on choosing cameras and telescopes; completely updated information about the films; a much larger bibliography; and hundreds of new photographs (in colour, and black and white) demonstrating the latest equipment and techniques. *Astrophotography for the Amateur* has become the standard handbook for all amateur astronomers. This expanded and updated edition provides an ideal introduction for beginners and a complete handbook for advanced amateurs. It will also appeal to photography enthusiasts who can discover how to take spectacular images with only modest equipment.

The Astrophotography Sky Atlas Springer Nature

"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.

Capturing the Universe Springer Science & Business Media

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

Catching the Light White Lion Publishing

The Complete Guide to Landscape Astrophotography is the ultimate manual for anyone looking to create spectacular landscape astrophotography images. By explaining the science of landscape astrophotography in clear and straightforward language, it provides insights into phenomena such as the appearance or absence of the Milky Way, the moon, and constellations. This unique approach, which combines the underlying scientific principles of astronomy with those of photography, will help deepen your understanding and give you the tools you need to fulfil your artistic vision. Key features include: • Distinguished Guest Gallery of images from renowned nightscape photographers such as Babak Tafreshi, Bryan Peterson, Alan Dyer, Brenda Tharp, Royce Bair, Wally Pacholka, and David Kingham • The twenty-five best landscape astrophotography subjects and how to photograph them • Astronomy 101 - build your knowledge of night sky objects and their motion: the Milky Way, moon, Aurora Borealis/Australis, constellations, meteors and comets • Information on state-of-the-art planning software and apps designed to enable you to capture and enhance your landscape astrophotography • Field guide for creating a detailed plan for your night shoot • Description of the best moon phases for specific types of nightscape images, and the best months and times of night to see the Milky Way • How-to guide for creating stunning time-lapse videos of the night sky, including Holy Grail transitions from pre-sunset to complete darkness • Four detailed case studies on creating landscape astrophotography images of the Milky Way, full moon, star trails, and constellations

The Deep-sky Imaging Primer Cambridge University Press

Discover the universe with original deep sky astrophotography. A portfolio of distant galaxies, beautiful nebulas and globular star clusters with informative descriptions. It will take you through a

journey across our milky way and beyond, with spectacular images of the deep sky. All images are unique as taken from the ground using amateur equipment and presented in their natural colors or in the Hubble palette.

Getting Started Springer Science & Business Media

Today's photographic equipment allows amateurs to take pictures of the stars that far surpass images taken just a few decades ago by even the largest observatories—and this book will teach you how. Author and world-renowned astrophotographer Thierry Legault teaches the art and techniques of astrophotography: from simple camera-on-tripod night-scene imaging of constellations, star trails, eclipses, artificial satellites, and polar auroras to more intensive astrophotography using specialized equipment for lunar, planetary, solar, and deep-sky imaging. Legault shares advice on equipment and guides you through techniques to capture and process your images to achieve spectacular results. Astrophotography provides the most thorough treatment of the topic available. This large-format, richly illustrated book is intended for all sky enthusiasts—newcomers and veterans alike. Learn how to: Select the most useful equipment: cameras, adapters, filters, focal reducers/extenders, field correctors, and guide telescopes Set up your camera (digital, video, or CCD) and your lens or telescope for optimal results Plan your observing sessions Mount the camera on your telescope and focus it for razor-sharp images Polar-align your equatorial mount and improve tracking for pin-point star images Make celestial time-lapse videos Calculate the shooting parameters: focal length and ratio, field of view, exposure time, etc. Combine multiples exposures to reveal faint galaxies, nebulae details, elusive planetary structures, and tiny lunar craters Adjust contrast, brightness, light curves, and colors Postprocess your images to fix defects such as vignetting, dust shadows, hot pixels, uneven background, and noise Identify problems with your images and improve your results

Structures in Space Springer Science & Business Media

This quality book shows what can be achieved by amateur astronomers using commercially-available telescopes and cameras. With forewords by Sir Arthur C. Clarke, Sir Patrick Moore, and Dr. Brian May, the book is for those interested in our beautiful universe.

Astrophotography for the Amateur Taylor & Francis

Photographer and teacher Brenda Tharp marries photography craft with artistic vision to help intermediate photographers translate what they see into a personal impression of a subject in nature. Using single images, along with before-and-after and with-or-without examples, Expressive Nature Photography teaches how to make exposures that are creative, not necessarily correct. Inspiring photographers to get out early and stay out late, this book explains how to use light, an essential element of outdoor photography. Readers will learn how to “see in the dark,” use filters to create very long exposures, create a natural effect using light painting, photograph night skies and moonlit landscapes, and make the best use of available natural light. This book also covers how to use shutter speeds to express motion and capture the energy of fast-moving subjects, such as rushing streams, ocean swells, and bounding wildlife. A chapter on the art of visual flow discusses how to create compositions that direct the viewer's eye through the frame for maximum impact. Photographers will develop a sense of when to break the “rules” of composition, how to use elements to frame subjects, what to include and exclude in the frame, how to create the feeling of

depth and dimension in a scene, and how to push the boundaries of composition to make memorable nature images that capture and convey fresh viewpoints. High-tech cameras can help create a good exposure and focused image, but they can't replace the artist's eye for composition, visual depth, and design, nor their instinct for knowing when to click the shutter. There are many books on photography technique focused on technical quality, but Expressive Nature Photography goes beyond the technical. It guides the way to pulling emotion and meaning out of a dynamic landscape, a delicate macro study, or an outstanding nighttime image.

Deep-Sky Companions: The Secret Deep Springer

Portraits of the deep sky and of local astronomical phenomena taken by the world's renowned astrophotographers—with a foreword by Neil deGrasse Tyson. To gaze at the stars is one thing; to capture that gaze in photographs is something else, a tantalizing scientific art that many attempt and few master. That rare mastery is on full display in this beautiful volume of space photography from thirty of the most accomplished astrophotographers in the world, both professional and amateur. Galaxies, star clusters, nebulae, and other deep-sky treasures fill the pages. Along with the marvels of the night sky—the Andromeda and Whirlpool galaxies, the Pleiades and the Praesepe, the Orion and Crab nebulae, and many more—each section features a profile of the photographer's work, techniques, philosophy, and experiences. Compiled by the world's leading amateur astrophotographer, with an introduction to the history of space photography, this spectacular volume is an essential for every stargazer's bookshelf.elf.

Making Beautiful Deep-Sky Images Createspace Independent Publishing Platform

The Astrophotography Manual is for those photographers who aspire to move beyond using standard SLR cameras and editing software, and who are ready to create beautiful images of nebulas, galaxies, clusters, and the solar system. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing and using equipment through image capture, calibration, and processing. This combination of technical background information and the hands-on approach brings the science down to earth with a practical method to plan for success. Features include: Over 400 images, graphs, and tables to illustrate these concepts A wide range of hardware to be used, including smartphones, tablets, and the latest mount technologies How to utilize a variety of leading software such as Maxim DL, Nebulosity, Sequence Generator Pro, Photoshop, and PixInsight Case studies showing how and when to use certain tools and overcoming technical challenges How sensor performance and light pollution relate to image quality and exposure planning

Expressive Nature Photography Ilex Press

There are currently thousands of amateur astronomers around the world engaged in astrophotography at a sophisticated level. Their ranks far outnumber professional astronomers doing the same and their contributions both technically and artistically are the dominant drivers of progress in the field today. This book is a unique collaboration of individuals world-renowned in their particular area and covers in detail each of the major sub-disciplines of astrophotography. This approach offers the reader the greatest opportunity to learn the most current information and the latest techniques directly from the foremost innovators in the field today. “Lessons from the Masters” includes a brilliant body of recognized leaders in astronomical imaging, assembled by

Robert Gendler, who delivers the most current, sophisticated and useful information on digital enhancement techniques in astrophotography available today. Each chapter focuses on a particular technique, but the book as a whole covers all types of astronomical image processing, including processing of events such as eclipses, using DSLRs, and deep-sky, planetary, widefield, and high resolution astronomical image processing. Recognized contributors include deep-sky experts such as Jay GaBany, Tony Hallas, and Ken Crawford, high-resolution planetary expert Damian Peach, and the founder of TWAN (The World at Night) Babak A. Tafreshi. A large number of illustrations (150, 75 in color) present the challenges and accomplishments involved in the processing of astronomical images by enthusiasts.

Deep-Sky Wonders Springer Science & Business Media

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.