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The Astrophotographer's Journal

Galileo Galilei's *Sidereus Nuncius* is arguably the most dramatic scientific book ever published. It announced new and unexpected phenomena in the heavens, "unheard of through the ages," revealed by a mysterious new instrument. Galileo had ingeniously improved the rudimentary "spyglasses" that appeared in Europe in 1608, and in the autumn of 1609 he pointed his new instrument at the sky, revealing astonishing sights: mountains on the moon, fixed stars invisible to the naked eye, individual stars in the Milky Way, and four moons around the planet Jupiter. These discoveries changed the terms of the debate between geocentric and heliocentric cosmology and helped ensure the eventual acceptance of the Copernican planetary system. Albert Van Helden's beautifully rendered and eminently readable translation is based on the Venice 1610 edition's original Latin text. An introduction, conclusion, and copious notes place the book in its historical and intellectual context, and a new preface, written by Van Helden, highlights recent discoveries in the field, including the detection of a forged copy of *Sidereus Nuncius*, and new understandings about the political complexities of Galileo's work.

The World at Night

In bright light, it is easier to take a beautiful photograph with your DSLR. When the sun starts to go down or you are shooting indoors, a whole new skill set is needed. This new addition to the successful Field Guide Series will help you shoot

what potentially could be the most lovely image without the help of natural light. No more harsh flash photographs with dreary backgrounds and no more blurry night shots that were exposed too long. Opening with a section on the qualities of different kinds of low light, the book then deals with ways of overcoming gloomy situations, whether you are shooting handheld or on a tripod. Post-production fixes are also covered, allowing you to turn difficult shots into real works of art.

Cruise Ship Astronomy and Astrophotography

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.

Astrophotography for the Amateur

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

The Backyard Astronomer's Guide

Practical Amateur Astronomy

Getting Started

This book is a comprehensive, illustrated guide to the operation, features, menus, and controls of the Leica D-Lux 4 compact camera. It provides clearly written guidance for how to achieve excellent results using the camera's numerous

sophisticated options. It also discusses topics such as infrared photography, macro photography, and street photography, and provides information about accessories for the D-Lux 4.

The Complete Guide to Landscape Astrophotography

Enrich your next sea vacation with this fun how-to guide to observing and doing astrophotography on water. Collecting together the author's five decades of astrophotography and teaching experience, this book shares all the practical information you will need to start on your own astronomy adventure. Part I is full of practical advice on what to pack, the best ways to enjoy the night sky from your cruise ship observatory, specific astronomical objects and events to look out for, and myriad other useful tips. Part II gives you a crash course on astrophotography at sea, teaching you the nitty-gritty details of taking pictures of the night sky. Proof that it can be done is provided by the many amazing color astrophotographs taken by the author while following the steps laid out in this book.

The Ultimate Guide To Master Astrophotography

Photographer's Guide to the Leica D-Lux 4

No longer are heavy, sturdy, expensive mounts and tripods required to photograph deep space. With today's advances in technology, all that is required is an entry-DSLR and an entry level GoTo telescope. Here is all of the information needed to start photographing the night sky without buying expensive tracking mounts. By using multiple short exposures and combining them with mostly 'freeware' computer programs, the effect of image rotation can be minimized to a point where it is undetectable in normal astrophotography, even for a deep-sky object such as a galaxy or nebula. All the processes, techniques, and equipment needed to use inexpensive, lightweight altazimuth and equatorial mounts and very short exposures photography to image deep space objects are explained, step-by-step, in full detail, supported by clear, easy to understand graphics and photographs. Currently available lightweight mounts and tripods are identified and examined from an economic versus capability perspective to help users determine what camera, telescope, and mount is the best fit for them. A similar analysis is presented for entry-level telescopes and mounts sold as bundled packages by the telescope manufacturers. This book lifts the veil of mystery from the creation of deep space photographs and makes astrophotography affordable and accessible to most amateur astronomers.

Budget Astrophotography

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!

How to Photograph the Solar Eclipse

Dedicated to modern lunar imaging, this is an in-depth and illustrated guide to capturing impressive images of our nearest neighbour.

Nikon D90 For Dummies

The Astrophotographer's Journal is a portable notebook created for the purpose of recording observations, cataloguing photographs, and writing down the wonderful memories created by this hobby. This book contains more than 200 pages to memorialize your stargazing and imaging sessions, as well as a useful chart on the last pages to index exciting or important notes. Read back on the logs to see how much progress you have made through the months, the problems you overcame, and the notes taken to improve in the future. Just as the pioneers of astronomy did in their time, look up and take notes of your observations as you are the author of this star-filled journey. This is the ORION journal, if you are looking for the ANDROMEDA or PLEIADES cover, please see full shop.

Photography: Night Sky

Furnishes an overview of digital photography, covering such topics as cameras, exposure, lighting, shutter speed, depth of field, and resolution--and tips on how to avoid hours of photo-editing by taking great photographs the first time.

Astrophotography

Your Nikon D90 digital camera offers professional-quality features like 11-point autofocus, Live View, and the ability to shoot HD video. Take full advantage of every feature with Nikon D90 For Dummies! This fun and easy guide helps you understand and use all the dials and modes, manage photo size and quality, take creative control with manual settings, and

share your images in print or online. With this full-color book, getting great shots is a snap. You'll learn to: Format memory cards, use Live View, create custom settings, and change lenses Use thumbnail and calendar displays and picture data, and get tips for inspecting your photos Control aperture, shutter speed, and ISO; work with active D-lighting; and use various flash modes Take control of lighting, exposure, and color Set up, shoot, and review photos using the viewscreen Record HD video, including sound, and know what your D90 can and can't do Download, organize, and archive your images, share them in prints, e-mails, or slide shows, and use Nikon's photo management software Decide when you should use JPEG and when to use NEF Adjust resolution for optimum print quality or file size Photographic expert Julie Adair King also shares secrets for getting the best point-and-shoot pictures, why you might not want to use the top image quality setting, and much more. Grab your Nikon D90 and Nikon D90 For Dummies, and start shooting!

Night Photography and Light Painting

In *The Art of Astrophotography*, astronomer and *Astronomy Now* columnist Ian Morison provides the essential foundations of how to produce beautiful astronomical images. Every type of astroimaging is covered, from images of the Moon and planets, to the constellations, star clusters and nebulae within our Milky Way Galaxy and the faint light of distant galaxies. He achieves this through a series of worked examples and short project walk-throughs, detailing the equipment needed - starting with just a DSLR (digital single lens reflex) camera and tripod, and increasing in complexity as the book progresses - followed by the way to best capture the images and then how, step by step, these may be processed and enhanced to provide results that can rival those seen in astronomical magazines and books. Whether you are just getting into astrophotography or are already deeply involved, Morison's advice will help you capture and create enticing astronomical images.

The Constellations Handbook

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

50 Best Astrophotography Targets for Beginners

A practical guide aimed at beginners interested in learning about the Moon and how to image our closest satellite neighbour. The book contains the complete photographic process including equipment, settings, capture techniques, stacking and image processing, each of which is vitally important to producing a good image. The information is laid out in a visual and easy-to-understand format so that even the dark art of image processing will not seem quite so daunting. There are many high-quality colour photos of the Moon to help you learn about different lunar features and a list of 100 lunar targets identified as a challenge for you to find. All the targets have been captured by the author who provides a brief description of each feature and where it is located on the lunar surface. You will be surprised to discover the fine level of lunar detail which you can see from your back garden and once you start imaging, you will realise there is more to the Moon than meets the eye.

The Astrophotography Manual

At first glance, the challenge of astrophotography may appear daunting. But not only are spectacular results possible, they are easy to learn with the step-by-step instructions provided in this handy resource, which shows amateurs how to produce images to rival a professional observatory.

The Low Light Photography Field Guide

In the last few years, digital SLR cameras have taken the astrophotography world by storm. It is now easier to photograph the stars than ever before! They are compact and portable, flexible to adapt with different lenses and for telescope use, and above all DSLR cameras are easy and enjoyable to use. In this concise guide, experienced astrophotography expert Michael Covington outlines the simple, enduring basics that will enable you to get started, and help you get the most from your equipment. He covers a wide selection of equipment, simple and advanced projects, technical considerations and image processing techniques. Unlike other astrophotography books, this one focuses specifically on DSLR cameras, not astronomical CCDs, non-DSLR digital cameras, or film. This guide is ideal for astrophotographers who wish to develop their skills using DSLR cameras and as a friendly introduction to amateur astronomers or photographers curious about photographing the night sky.

The Moon

Learn how to photograph the total solar eclipse of August 21, 2017, with a wide range of techniques and camera gear:

Simple point-and-shoot and mobile phone cameras DSLR and Mirrorless still cameras Video cameras Wide-angle lenses and long telephotos Telescopes, both tracking the sky and untracked In this 290-page ebook, you'll learn: What to expect to see and what to shoot. How to shoot simple grab shots and eclipse "selfies." What types of cameras are best. What tripod features are best. What filters to use and when to remove them. How to shoot wide-angle still images. How to set up time-lapse sequences. How to frame scenes for time-lapses and composites. How to plan great shots above scenic landmarks. How to shoot close-ups of totality. What focal lengths are best for framing the Sun. What types of telescopes and mounts are best. How to align tracking mounts in the daytime. How to focus and avoid image blurring from sky motion. What the best exposures will be. When to shoot on auto exposure vs. manual. How to plan shoots with single or multiple cameras. How to automate a camera. Tips on last-minute moves to avoid clouds. What can go wrong and how to avoid the common mistakes. How to capture the eclipse and still see it! And finally ... How to process your eclipse photos, from simple wide-angle scenes to complex multi-exposure stacks and composites The book contains:

- Dozens of sky charts made specifically for the 2017 eclipse, and for both the eastern and western United States, to show how to frame the scene with a range of focal lengths, and for planning your shoot.
- Active links to websites for equipment suppliers and for detailed eclipse maps and times for your site.
- Step-by-step tutorials take you through processing, from basic developing of Raw files, to assembling time-lapse movies, and stacking images for composites, plus blending of multiple exposures with luminosity masks.

What's in the book — Chapter 1: Introduction A summary of the techniques the book explains. Chapter 2: The Eclipse Experience What you will see and experience during the eclipse, with the naked eye and through optics. Eclipse etiquette. Chapter 3: Where to Go Where you need to be in the path of totality. Plan B options. Chapter 4: Eclipse Photo Fundamentals Choosing filters. Shooting partial phases vs. totality. Chapter 5: Shooting Wide-Angle Stills Choosing cameras (from simple to complex) and lenses. Choosing exposures and other settings. Framing options, for capturing easy but dramatic wide-angle scenes and panoramas. Chapter 6: Shooting Close-Up Stills Choosing cameras, lenses, and telescopes for detailed close-ups. Tracking mounts vs. untracked tripods. Setting up a tracking telescope. Focusing tips. Recommended exposure sequences. Framing the corona. Practice tips for shooting the Moon. Chapter 7: Shooting Time-Lapses Setting up wide-angle and close-up time-lapses. Framing the motion of the Sun. Tracking the Sun. Controlling the camera. Chapter 8: Shooting Video Video camera and lens options. Setting exposures. Chapter 9: Shooting Composites Planning a multiple exposure composite. Framing the scene. Wide-angle vs. close-up sequences. Chapter 10: What Can Go Wrong? Common equipment and user malfunctions! Checklists. Operating multiple cameras and shooting plans. Automating a camera. Cloudy options. Contingency plans. Chapter 11: Processing Eclipse Images Workflows. Photoshop basics. Developing Raw images. Processing wide-angle scenes and close-ups of the corona. Processing time-lapse sequences. Stacking composites. Stacking and merging multi-exposure blends with HDR and luminosity masks. Chapter 12: Conclusion Advice for eclipse newbies. Future eclipses. Where to learn more – for detailed maps and information on your site.

A Photographic Atlas of Selected Regions of the Milky Way

Together, this two-volume set provides amateur astronomers with all the information they require to set up their telescopes and embark upon an exciting exploration of the night sky. Complete with trouble-shooting advice, practical tips for observing over 200 interesting celestial objects, and information about the latest products and resources, this set of Covington's two books is an essential purchase for every new telescope owner.

Shoot the Moon

The book that taught thousands of people about astrophotography has been completely revised and updated in this second edition. It covers everything you need to know to capture stunning images of deep-sky objects with a DSLR or CCD camera: The fundamental concepts of imaging and their impact on the final image How to pick a telescope and camera How to get set up and take the images Where and when to find the best objects in the night sky How to process images using Adobe Photoshop(R) and PixInsight(R) Start-to-finish examples of image processing Full-color with over 300 illustrations.

Getting Started

Lance Keimig, one of the premier experts on night photography, has put together a comprehensive reference that will show you ways to capture images you never thought possible. This new edition of Night Photography presents the practical techniques of shooting at night alongside theory and history, illustrated with clear, concise examples, and charts and stunning images. From urban night photography to photographing the landscape by starlight or moonlight, from painting your subject with light to creating a subject with light, this book provides a complete guide to digital night photography and light painting.

Philip's Astrophotography With Mark Thompson

Astrophotography can be one of the most rewarding pursuits of a lifetime, it can also be one of the most daunting. This book uses over 200 illustrations, images, charts and graphs in addition to the text to help you understand what equipment you will need and how to make it all work so you can create breathtaking images of the heavens. From purchasing your first astrophotography telescope, hooking up your camera, taking long exposure images, and finally processing that finished image, this book will be your indispensable guide. If you have ever wanted to take photographs of glowing nebulae, spiral galaxies and shimmering star clusters, this is the reference you want on your desk as well as with you out under the stars. I will take you on a journey exploring in-depth details of field rotation and focusing methods, as well as explaining not just the what and how, but the ever important why. Actually see why you stack multiple images and what effect it has. Don't just read about how the atmosphere affects imaging, see it through experimentation that you can do at home on your own!

Digital Astrophotography

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

Astrophotography on the Go

Photography: Night Sky will give you the tips and techniques you need to take stunning photographs in the dark. You'll learn how to overcome the unique issues that confront nighttime photographers and capture images of which you'll be proud. Co-author Jennifer Wu, an elite Canon "Explorer of Light" professional photographer, has become renowned for her ability to capture nighttime phenomena, from quarter-phase moon rises to shooting stars to the ephemeral Milky Way. this new guide reveals her methods and concentrates on photographing four principal subjects: stars as points of light, star trails, the moon, and twilight. these subjects share common photo techniques and considerations, but each also requires a distinct approach. Once captured, your digital images must be finished on the computer; coauthor and author of the bestselling Photography: Outdoors, James Martin, delves into the settings and procedures that elevate an image from mundane to striking. This clear and practical guide will help photographers of all levels portray the stunning spectacle of the night sky, preserving those special memories and moments from a life outdoors.

The Art of Astrophotography

Learning the constellations is difficult. Remembering them is even harder. Have you ever wanted to look up to the night sky, name any pattern of stars and be able to tell their stories? This book groups the constellations in a logical order, so that the reader can easily learn them by their origin, and see how their stories interact with one another as a group. The last pages of this book include an index of all 88 constellations, each with a slot where you can write your own personal tips and tricks in order to memorize them with ease. The Constellations Handbook is not just another guide listing all the constellations from A to Z and their location, it is the perfect companion for stargazing, and a learning journey through the ages.

The Astrophotography Manual

Are you interested in astrophotography? Do you need good information that can help you as a starting point? Taking images of objects that are millions of miles from Earth is about as complicated as it sounds and when you start out you will find it hard to target the right ones. Size, brightness and type are just a few of the more common considerations, but there are many more that relate to the type of equipment you have to hand and what the best tools for the job will be. Now, with 50 Best Astrophotography Targets for Beginners, you have a handy information guide that will provide the starting place you seek, with information on: * How to get started * Tackling close objects like the sun and moon * Rosette nebula * Sombrero galaxy * Southern pinwheel galaxy * Lagoon nebula * Andromeda galaxy * Pleiades * And many more Once you have mastered the techniques needed to take stunning photographs of these amazing features you can move on to further reading on the subject, but making sure that you are taking quality images of some of these is the first step. Designed with the novice in mind, 50 Best Astrophotography Targets for Beginners provides good, clear information in an easily understood format, allowing you to take the photographs you've always wanted to take. It even includes photographs that realistically shows you what you can expect to achieve. Get a copy today and see how it will improve the way you take amazing shots of the heavens that will impress and delight friends and family alike!

Digital Photography Exposure For Dummies

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.

Digital SLR Astrophotography

Edward Emerson Barnard's Photographic Atlas of Selected Regions of the Milky Way was originally published in two volumes in 1927. Together, these volumes contained a wealth of information, including photographic plates of the most interesting portions of the Milky Way, descriptive text, charts and data. Only 700 copies were printed, making the original edition a collector's item. Reproduced in print for the first time, this edition combines both volumes of Barnard's Atlas. It directly replicates Barnard's text, and contains high-resolution images of the original photographic plates and charts, reordered so that they can be seen together. It also includes a biography of Barnard and his work, a Foreword and Addendum by Gerald Orin Dobek describing the importance of the Atlas and additions to this volume, and a pull-out section with a mosaic of all 50 plates combined in a single panorama.

Tony Northrup's DSLR Book: How to Create Stunning Digital Photography

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

A Stargazing Program for Beginners

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

The top-rated and top-selling photography ebook since 2012 and the first ever Gold Honoree of the Benjamin Franklin Digital Award, gives you five innovations no other book offers: Free video training. 9+ HOURS of video training integrated into the book's content (requires Internet access). Travel around the world with Tony and Chelsea as they teach you hands-on. Appendix A lists the videos so you can use the book like an inexpensive video course. Classroom-style teacher and peer help. After buying the book, you get access to the private forums on this site, as well as the private Stunning Digital Photography Readers group on Facebook where you can ask the questions and post pictures for feedback from Tony, Chelsea, and other readers. It's like being able to raise your hand in class and ask a question! Instructions are in the introduction. Lifetime updates. This book is regularly updated with new content (including additional videos) that existing owners receive for free. Updates are added based on reader feedback and questions, as well as changing photography trends and new camera equipment. This is the last photography book you'll ever need. Hands-on practices. Complete the practices at the end of every chapter to get the real world experience you need. 500+ high resolution, original pictures. Detailed example pictures taken by the author in fifteen countries demonstrate both good and bad technique. Many pictures include links to the full-size image so you can zoom in to see every pixel. Most photography books use stock photography, which means the author didn't even take them. If an author can't take his own pictures, how can he teach you? In this book, Tony Northrup (award-winning author of more than 30 how-to books and a professional portrait, wildlife, and landscape photographer) teaches the art and science of creating stunning pictures. First, beginner photographers will master: Composition Exposure Shutter speed Aperture Depth-of-field (blurring the background) ISO Natural light Flash Troubleshooting blurry, dark, and bad pictures Pet photography Wildlife photography (mammals, birds, insects, fish,

and more)Sunrises and sunsetsLandscapesCityscapesFlowersForests, waterfalls, and riversNight photographyFireworksRaw filesHDRMacro/close-up photography Advanced photographers can skip forward to learn the pro's secrets for: Posing men and women. including corrective posing (checklists provided)Portraits (candid, casual, formal, and underwater)Remotely triggering flashesUsing bounce flash and flash modifiersUsing studio lighting on any budgetBuilding a temporary or permanent studio at homeShooting your first weddingHigh speed photographyLocation scouting/finding the best spots and timesPlanning shoots around the sun and moonStar trails (via long exposure and image stacking)Light paintingEliminating noiseFocus stacking for infinite depth-of-fieldUnderwater photographyGetting close to wildlifeUsing electronic shutter triggersPhotographing moving carsPhotographing architecture and real estate

Digital Astrophotography

First published in 1999, this is an expanded and updated edition of the best-selling, standard handbook on astrophotography for amateurs.

Astrophotography is Easy!

At first glance, the challenge of astrophotography may appear daunting. But not only are spectacular results possible, they are easy to learn with the step-by-step instructions provided in Stephan Seip's Digital Astrophotography: A Guide to Capturing the Cosmos. Today, amateurs can produce images that only twenty years ago a large professional observatory would have been proud of; and this book shows you how. Learn how to: Set up your camera for optimum results Focus your camera for razor-sharp images Take beautiful night shots with a simple compact digital camera, a tripod, and a telescope Use a DSLR camera to shoot the Sun, Moon, stars, star clusters, and nebulae through your telescope Get brilliant images of planets with a Webcam Capture remote galaxies with a charge-coupled device (CCD) camera just like a pro Also included are lessons on the processing that is done in the "studio" after your shoot, including how to: Shoot RAW format images and improve them with calibration frames Take short exposures of faint deep-sky objects and combine them into a longer exposure Perform brightness, contrast, and color correction Make corrections to correct for vignetting and uneven field illumination Process your images for stunning results Equipment requirements for astrophotography range from nothing but a simple camera and tripod to a multi-thousand dollar computer controlled telescope equipped with a CCD auto-guider and separate guide-scope. Researching the best equipment for your needs is a task in itself. Seip helps you to sort out which cameras are best for the various celestial objects, what to look for when buying a camera, and what accessories you really need. The rewards of this fascinating hobby, as the author says, "Grants you unforgettable hours under the night sky; it allows you to produce aesthetically rewarding and lasting results. Astrophotography is a love-match between physics, photography, art, and digital image processing. It is exciting!"

The Digital Photography Book

Sets out a simple month-by-month program to reveal all of the night sky's biggest and most beautiful secrets in just one year – and with only a few hours of stargazing each month. By investing just an hour a week and \$50 in binoculars, it's possible to learn a few simple techniques and quickly gain a real insight into the night sky's ever-changing patterns – and what they tell us about Earth, the seasons and ourselves. Searching more for a learned appreciation of nature and our exact place within the cosmos than academic scientific knowledge, science and travel writer Jamie Carter takes the reader on a 12 month tour of the night sky's incredible annual rhythms that say so much about Earth. During the journey he learns about the celestial mechanics at work in the skies above that are – to the beginner – almost beyond belief. As well as the vital constellations and clusters, and the weird and wonderful nebulas, he searches out “dark sky destinations” across the globe that help increase knowledge and give a new perspective on familiar night sky sights. On the journey he witnesses a solar eclipse and grapples with star-charts, binoculars, smartphone apps, telescopes, spots satellites and attempts basic astro-photography. By year's end, the reader will be able to glance at the night sky from anywhere on the planet and tell what direction he or she is facing, what time it is, where all the planets are and even where the Galactic Center Point is.

Sidereus Nuncius, or The Sidereal Messenger

Here are clear explanations of how to make superb astronomical deep-sky images using only a DSLR or webcam and an astronomical telescope – no expensive dedicated CCD cameras needed! The book is written for amateur astronomers interested in budget astrophotography – the deep sky, not just the Moon and planets – and for those who want to improve their imaging skills using DSLR and webcams. It is even possible to use existing (non-specialist astronomical) equipment for scientific applications such as high resolution planetary and lunar photography, astrometry, photometry, and spectroscopy. The introduction of the CCD revolutionized astrophotography. The availability of this technology to the amateur astronomy community has allowed advanced science and imaging techniques to become available to almost anyone willing to take the time to learn a few, simple techniques. Specialized cooled-chip CCD imagers are capable of superb results in the right hands – but they are all very expensive. If budget is important, the reader is advised on using a standard camera instead. Jensen provides techniques useful in acquiring beautiful high-quality images and high level scientific data in one accessible and easy-to-read book. It introduces techniques that will allow the reader to use more economical DSLR cameras – that are of course also used for day-to-day photography – to produce images and data of high quality, without a large cash investment.

The Astrophotographer's Guidebook

From the author of Getting Started: Long Exposure Astrophotography and the Messier Astrophotography Reference comes a book showing you how to produce wonderful astrophotos without the astronomical costs normally associated with the hobby. From a DSLR, to a point and shoot, and even using your phone, you can capture beautiful images of the sun, moon, clusters, galaxies and nebulae without breaking the bank. A complete image processing walkthrough is included using only freely downloadable software. Discussed inside are telescopes, adapters, do-it-yourself projects, software and processing techniques to help you photograph the skies without spending a fortune. Already have a telescope or other equipment? No problem, it will help you make the most of what you already have as well as show you what you can buy or make yourself to improve your images.

The Deep-sky Imaging Primer

THE ULTIMATE GUIDE TO MASTER ASTROPHOTOGRAPHY. The Ultimate Guide to Master 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 fulfill your artistic vision.

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