

Read Book Canon Eos 7d Digital Field Guide By
Lowrie Charlotte K 1st First Edition 2009

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Learn to use every feature of your Canon T3/1100D and get great shots every time Digital Field Guides offer step-by-step information about digital camera controls as well as tips and techniques for getting great photos in various common situations. This handy guide, perfectly sized to fit in a camera bag, explains how to use every button, dial, and setting on your Rebel T3/1100D and also covers using the improved HD video features, and in-camera movie editing options. Illustrated with the author's outstanding photos, the book provides recipes for getting the photo you want in any environment. The EOS Rebel T3/1100D is Canon's newest entry-level dSLR camera, offering a streamlined and simplified experience for new dSLR users This book explains every camera control, showing you how to use all the buttons, dials, and settings Cover the exciting new HD video features and offers suggestions for getting outstanding shots in common shooting situations Small-trim design makes it easy to take this guide along whenever you use your camera Includes a gray card and color checker card used to maintain accurate color and white balance New dSLR camera users will get up to speed quickly with

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the easy-to-follow guidance in this handy field guide. Tips and tricks for getting the best landscape and nature pictures with a digital camera.

The Canon Rebel EOS T3i/600D is a powerful camera packed with new features. Covering every button, menu, and setting on your new Canon EOS Rebel T3i, the Canon Rebel EOS T3i/600DDigital Field Guide can help you to achieve the most with your new camera. Chapter 1: Setting Up the EOS Rebel T3i/600D- This chapter identifies every button, dial, and indicator on your camera and walks you through setting up your Canon T3i for immediate use. Chapter 2: Controlling Exposure and Focus: This chapter teaches you how each of your camera's modes functions, from fully automatic to the daunting manual mode. It also covers how to adjust key exposure settings such as ISO, shutter speed, and aperture. Chapter 3: Getting Great Color and Adding Creative Effects- Within this chapter, you'll discover how properly adjust white balance, change color space, or apply creative filter effects in camera. Chapter 4: Customizing the EOS Rebel T3i/600D- This section will teach you to personalize your camera by customizing key features such as exposure or autofocus to fit your personal preferences. Chapter 5: Shooting with a Live View on the LCD- This chapter covers how to set up, work, and shoot in live view. Chapter 6: Using Movie Mode- Chapter 6 covers how to get the most of your

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movie mode by knowing some of the basics like recording and playing back your videos. Chapter 7: Working with Flash- This chapter explores your flash options from shooting with the built-in flash, modifying flash exposure, shooting with a speedlite, or using a wireless flash, and much more. Chapter 8: Exploring Lenses and Accessories- Chapter 8 offers key advice on choosing the best lenses and accessories for your Canon T3i, including recommendations for a variety of budgets and skill-levels. Chapter 9: The Elements of Exposure and Composition- This chapter gives a primer on the fundamentals of exposure and composition to help you take the best possible photos now that you know how to make all necessary adjustments to your camera settings. Appendix- How to Use the Gray Card and Color Checker- A bonus gray card and color checker are provided to help you get the color right on every shot. This appendix teaches you how to make the most of this great add-on. The Canon Rebel EOS T3i/600DDigital Field Guide is a friendly, efficient, clearly-illustrated guide that will enable you to confidently capture beautiful images with your new Canon EOS Rebel T3i.

"From how many frames you need to shoot per second to capture that WOW moment to where to focus on a bird with a big beak to get the best depth of field, this book has it all for the wildlife photographer. It is an impressive mix of technology

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with just plain good advice for image-taking, and they discuss each point specifically for shooting wildlife, because it is a totally unique type of photography. The lighting and shutter speed for a macro flower shot is not the same that you'd need for a bird in flight or a kangaroo jumping across a field. Mix together this fantastic info with the many years of experience that the Gerlachs have shooting and teaching and the absolutely jaw-dropping images and you really do have a perfect storm for a book"--

Most Australian stag beetles live secretive lives, spending the majority of their life cycle inside decaying timber or under logs sunken in the soil. Yet these active recyclers of the forest are admired by beetle-loving people worldwide. Their aesthetic appeal and the rarity of some species make them of great value to collectors: the beetles in the subfamily Lampriminae are splendidly colourful, while others show an amazing variety in male mandible size and structure. *A Guide to Stag Beetles of Australia* is a comprehensive account of the 95 lucanid species found in Australia. This book reveals their diversity and beauty, looks in detail at their morphology, habitats and ecology, and explains how to collect, keep and preserve them. Natural history enthusiasts and professional and amateur coleopterists alike will benefit from the use of this guide. The book features some stunning images from entomologist and photographer Paul Zborowski. Paul has over 40

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years' experience of field-based study of insects and related creatures in habitats all over the world. In this book, Tom Gallovich shows readers how to use their camera's exposure controls (aperture, shutter speed, ISO) to establish the focal point of the image and create the overall mood of the shot and choose a particular lens or focal-length setting to massage the way elements in the original scene will appear within the frame. Next, he presents chapters on using shape, color, lines, and arrangement to strengthen the intended visual message. Readers will learn how to best place their primary subject (and in some cases secondary subject) for maximum impact and will discover artistic strategies that reinforce that decision through careful use of color, tone, highlight and shadow, leading lines, curved shapes, and relative size—qualities that will contribute to the overall mood in the image. Copious illustrations emphasize the impact that putting these concepts into play will have on your images—and these are often coupled with images that show how ineffective images are when those important compositional needs are not attended to.

The Web has gone VIDEO... 90% of all web traffic will soon be video! This 2nd - revised, expanded and updated - edition of the popular book trailer and video-guide helps you to market your novels or non-fiction books. It shows you how to master the composition of your book trailer, and where to find

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free music and photos. The Web has gone VIDEO... 90% of all web traffic will soon be video. Video has become the way we share, the way we communicate, the way we connect, and the way we buy and sell - especially books. Video has also become the way we search (YouTube is the second most popular search engine), the way we "surf," and the way we make buying decisions. 111 Tips to Create Your Book Trailer Promote Your Book, Using Video to Invite New Readers In more than 111 tips it guides you step by step how to plan, create, and upload your videos, and most of all: how to attract new readers with your book trailer. Video book trailers are an important marketing tool for Indie Authors and Publishers! YouTube and other video-sharing sites have enabled authors to spread the message about their books to a wide audience. Also, thanks to the fact that videos are ranked very high in Google's search results. After all, Google owns YouTube - which in turn means that smart video marketing of books will top any other way of advertising. Video marketing is one of the most important promo techniques available to authors!

Photographing female nudes is about more than just the body. For Laurie Klein, it is about capturing the feminine spirit. Laurie's creative medium is nature. The landscape plays as much of a role in her photos as does the model. Laurie's unique way of using infrared photography, and the caring, personal way she captures her subject's innermost emotions becomes a transformational experience for both

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photographer and client. In this book, Klein details her techniques and her inspirations in creating these unforgettable images. Shooting nudes in nature is complex. The photographer needs to know when to start with the model and arrange nature around them or see something in nature and treat the model as part of the nature. Klein gives many ideas for posing models in relationship to nature and the landscape. She masterfully uses infrared photography to capture the beauty of the surroundings and the female form. Each photo in the book is accompanied by details of the location or setting, camera settings, composition concepts and insight into the idea and execution of the shot. Part of what makes Klein's photos so unique and vibrant is that she develops a trusting environment that allows the subject to give themselves over completely to a transcendent photographic experience. Out of this usually comes a series of fine art portraits or a substantial book for them to enjoy, share and pass on through the generations. Using the body as a landscape, Klein crafts unique and sometimes abstract images that emphasize the beauty of the female form in different ways. Sometimes the simplicity of the image is the beauty of it. The infrared photography format provides striking contrasts between the skin tones and the natural surroundings. Tips are given for choosing unique locations that can work best for creating artful images like the ones in the book. Being able to improvise and set-up a shoot when discovering a unique setting or lighting scenario can be the key to crafting a stunning portrait. Sometimes the unexpected can occur and a prepared and creative photographer can turn that into a magical moment captured in infrared. Klein is recognized for her signature infrared photography style. This book provides in insight into her creative process. Discover the easy path to taking brilliant and memorable photos The popularity of DSLR cameras remains on the rise,

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yet these digital cameras still present a challenge to novice photographers who lack a foundation in photography skills. This straightforward-but-friendly guide walks you through the 100 most common photos that amateur photographers like to include in their personal portfolios and offers specific advice on getting the correct exposure settings, composition, and lighting while sparing you the technical jargon. Seasoned author and photographer Doug Sahlin includes more than 300 full-color photos on everything from family portraits and pets to nature and sporting events, all aimed at providing you with inspiration as you work to find your own individual style. Skips the technical jargon and shows you where to start for optimal exposure settings. Offers shortcuts, tips, and advice for setting the camera to make specific shots and making impromptu adjustments when needed Includes more than 300 full-color photos of people, nature, sports, events, and places that serve as example and inspiration Helps you get the best photographs from your DSLR while you work with movement in action photos, finicky lighting with fireworks or amusement parks at night, or distance, blur, and intricate details Walks you through troubleshooting the most common digital photography problems Digital SLR Settings & Shortcuts For Dummies delivers the starting point for getting the necessary settings so you can get great digital photos. Crime Scene Photography, Second Edition, offers an introduction to the basic concepts of forensic picture-taking. It covers the basic crime scene scenario, providing important details to guide the student and professional through the process in a step-by-step manner. In addition to the photographic aspect, the handling and care of evidence and maintenance of the crime scene are also addressed. The book begins by tracing the history of crime scene photography. It explains the cardinal rules of crime scene photography; the photographic variables related to exposure;

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and the three basic types of crime/accident scene photographs: overalls, midranges, and close-ups. This is followed by discussions on the use of digital imaging technologies and the legal issues related to photography. Each chapter begins with an outline of Learning Objective and Key Terms that will be used for the remainder of the text. Within the text are tips and rules-of-thumb that highlight important aspects of the chapter. The chapters conclude with a succinct Summary, Discussion Questions, Practical Exercises, and a comprehensive list of Further Readings. This textbook is designed for photography students in an academic setting and practitioners working within various law enforcement agencies. Over 600 full color photographs Two new chapters on 'The History of Forensic Photography,' and 'Digital Image Processing of Evidentiary Photography' An essential reference for crime scene photography, including topics such as Composition, the Inverse Square Law, Court Cases affecting photography, Digital Image Processing, and Photogrammetry Required reading by the Crime Scene Certification Board of the International Association for Identification (IAI) for all levels of certification

Canon EOS 7D Digital Field Guide John Wiley & Sons
Canon EOS 5D Mark III Digital Field Guide John Wiley & Sons

Using a combination of artistic approach and impeccable technique, professional photographers John and Barbara Gerlach will guide you through the field as you photograph the most intriguing and captivating subjects out in the wild. A sampling of what you'll learn: How to integrate equipment with technique to capture superb wildlife images of birds, mammals, amphibians, and more with an emphasis on precision and speed Where and how animals can be approached closely enough to photograph well How not to disturb the critters around you, depending on environment (den vs. tree and everything in-between) When (and when-

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not) to feed the animals Technical info like cropping, frames per second for capture, pixels/enlarging, and even HDR Where to focus on various types of wildlife Lighting depending on which animals have high contrast Ethics Traveling with your gear The "top 10" places in the world to shoot and how to find the best location for your interests Get great digital shots with your Canon EOS 7D Mark II This full-color guide to the features and functions of the CanonEOS 7D Mark II makes it easy for first-time users to get the mostout of the camera and capture cool, professional-level photos.Packed with examples on how to create eye-popping digital photos,Canon EOS 7D Mark II For Dummies gives you a plain-Englishtour of the camera's controls, shows how to manipulate focus andcolor, gives step-by-step instructions on how to shoot betterlow-light and action shots, and so much more. Digital Single Lens Reflex (DSLR) cameras offer full controlover exposure settings while also providing pre-sets and auto modeoptions for beginners. If you're just picking up—orconsidering buying—a Canon EOS 7D Mark II camera, this funand friendly guide takes the intimidation out of making sense ofthe bells and whistles so you can get right down to snappingstunning photos. Covers shooting in auto mode and using live view and playbackmodes Explains how to dial in exposure and use lighting controls Includes easy tips for printing, posting photos online, andother ways to share images Gives you ten photo editing tricks and pro functions If you're an amateur photographer who wantsbetter-than-entry-level gear, or a pro looking for a budget camerato add to your collection, Canon EOS 7D Mark II For Dummieshas the information you need to get more bang for your buck out ofthis powerful camera. In *Mastering Bird Photography: The Art, Craft, and Technique of Photographing Birds and Their Behavior*, acclaimed bird photographer and author Marie Read shares techniques and

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stories behind her compelling images, offering fresh insights into making successful bird photographs, whether you're out in the field or in the comfort of your own backyard.

In this richly illustrated book, you'll learn how to be in the right place at the right time and how to obtain tack sharp portraits. Marie then teaches you to take your skills to the next level in order to capture action shots, illustrate birds in their habitats, and portray birds in evocative and artistic ways.

Building on basic technical topics such as camera choice, lens choice, and camera settings, Marie reveals how fieldcraft, compositional decisions, and knowledge of bird behavior contribute greatly to a successful bird photograph. Captions for the over 400 images contained in the book provide details on the equipment used, as well as camera settings. Throughout the book, bird behavior insights provide bird photographers of all skill levels a wealth of essential insider information that will help you produce images that stand out from the crowd.

Topics include:

- Equipment and accessories
- Focus, exposure, and light
- Composition and creativity
- Bird photography ethics
- Capturing bird behavior
- Storytelling images
- Action and in-flight shots
- Backyard photo studio
- Weather, water, and mood
- Top bird photo sites in North America
- Basic image editing

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...and much more

Foreword by Tim Gallagher, Editor-in-Chief Emeritus, *Living Bird* magazine. p.p1 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Cambria} p.p2 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px 'Times New Roman'; min-height: 15.0px} p.p3 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Cambria; min-height: 14.0px} p.p4 {margin: 0.0px 0.0px 0.0px 0.0px; font: 12.0px Arial} span.s1 {font: 11.0px Verdana} span.s2 {font: 12.0px 'Times New Roman'}

Anyone who is an experienced digital photography student will tell you that more often than not, they are using their digital SLR camera away from their home or the classroom. And while they may feel like they've got the basics of their camera down, wouldn't it be nice for them to have some sort of a reference with to take when they're on the go? DAVID BUSCH'S COMPACT GUIDE FOR THE CANON EOS 7D is a portable reference guide that goes beyond the standard field guide. Featuring both the basics – lists of controls, settings, and menu commands – and so much more, including depth-of-field tables, distance charts, and recommended settings for various shooting environments. With this guide on hand students can confident in knowing they have all the information they need at their fingertips. They can just slip the book into your camera bag and go!

Have Fun and Earn Money With Your Videos! No matter if you want to become a YouTube star, or just want to produce just leisurely videos, educational videos, marketing, and business communication videos, or movie and book trailers: you will find lots of valuable ideas and suggestions. If you are looking for new ways

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to drive traffic to your business and your social media accounts through video, this is the book for you. Your audience needs to be intrigued, inspired, and informed by an outstanding video viewing experience. Walt Disney once said: "I would rather entertain and hope that people learned something than educate people and hope they were entertained." Rather than focusing too much on equipment, the focus of this book is on the art of creating videos that viewers want to watch over and over. Find more than 111 tips on how to create professional videos that enchant your audience. Get detailed instructions in this book on how and where to market and profit from your video production.

Professional photographer David Taylor's concise, jargon-free text guides the reader through the basics of composition, why it matters, and how to attune the mind to the art of looking. Beginning with a guide to choosing a camera - and how different types help you think about composition differently - he explains aspect ratios, the focal length of lenses, and the effect of perspective. The main composition concepts - from the Rule of Thirds, the Golden Section, the Rule of Odds, visual weight and contrast, to actual and implied lines in an image, symmetry, viewpoint and abstraction - are each analysed and demonstrated with the aid of the author's own beautiful images. The techniques of exposure, depth of field, shutter speed and white balance are explained, with practical hints and tips. Finally, post-production techniques such as cropping, selective blurring, panoramic stitching and use of filters complete this in-depth guide to a fascinating area of photography.

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Featuring an 18.0 megapixel CMOS sensor and DIGIC 4 image processor for high image quality and speed, ISO 100-6400 for shooting from bright to dim light, and many more great features, the Canon EOS Rebel T2i brings professional features into an entry-level digital SLR. The Canon EOS Rebel T2i/550D Digital Field Guide will teach you how to get the most out of these impressive features so you can improve your photography skills.

CHAPTER 1: Setting Up the EOS Rebel T2i/550D. –

This chapter will help you set up your T2i so you can get the best image quality from your Canon T2i. It will also cover different ways to review your images and protect them from accidental deletion.

CHAPTER 2: Controlling Exposure and Focus. – Learn about the different types of shooting modes on your T2i, as well as image exposure and how to modify it for individual shooting scenarios.

CHAPTER 3: Getting Great Color. – This chapter explores the concepts of light and color, and teaches you how to select a white balance and picture style on your T2i for maximum color rendering.

CHAPTER 4: Customizing the EOS Rebel T2i/550D. – Learn how to set up your T2i for common and uncommon shooting situations.

CHAPTER 5: Shooting in Live View and Tethered. – This chapter explains the T2i's Live View feature and how to shoot tethered to a computer.

CHAPTER 6: Using Movie Mode. – A great starting point for any photographer to explore the world of digital video with the T2i, this chapter will teach you how to shoot and playback video on the T2i.

CHAPTER 7: Using Flash. – This chapter explores flash technology, and how to use the T2i's on board flash and menu options for the built-in

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flash and for EX-Series Speedlites. CHAPTER 8: Exploring Canon Lenses and Accessories. This chapter covers popular T2i lenses and how they impact the images you capture with your T2i. CHAPTER 9: The Elements of Exposure and Composition. – Learn how aperture, shutter speed, and ISO affect your images, and how they work together to determine exposure. This chapter also covers the basics of composing images with your T2i. CHAPTER 10: Event and Action Photography. – Learn how to capture action in your images, plus some tips and tricks for general event photography, including how to capture great photos in low lighting. CHAPTER 11: Nature and Landscape Photography. – This chapter explores how to approach shooting nature and landscape images with your T2i. CHAPTER 12: Portrait Photography. – Learn how to set up the T2i for portrait shooting, plus information on choosing backgrounds, lighting, and other tips and tricks for taking great portraits. APPENDIX A: Exploring RAW Capture. – This chapter contains an overview of RAW capture as well as a brief walk-through on converting RAW images into a final image. APPENDIX B: How to Use the Gray and Color Checker cards. – Learn how to produce photos with accurate color and exposure with these free-inside-the-book tools. A full-color, portable-trim book with beautiful photography for photographers on the go, the Canon EOS Rebel T2i/550D Digital Field Guide includes a free Grey/Color checker card to help you achieve accurate white balance and color. With the Canon EOS Rebel T2i/550D Digital Field Guide, you will gain a thorough understanding of the T2i dSLR, as well as the

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basic fundamentals of capturing the best possible photos.

Get great digital shots with your Canon EOS 7D Mark II This full-color guide to the features and functions of the Canon EOS 7D Mark II makes it easy for first-time users to get the most out of the camera and capture cool, professional-level photos. Packed with examples on how to create eye-popping digital photos, Canon EOS 7D Mark II For Dummies gives you a plain-English tour of the camera's controls, shows how to manipulate focus and color, gives step-by-step instructions on how to shoot better low-light and action shots, and so much more. Digital Single Lens Reflex (DSLR) cameras offer full control over exposure settings while also providing pre-sets and auto mode options for beginners. If you're just picking up—or considering buying—a Canon EOS 7D Mark II camera, this fun and friendly guide takes the intimidation out of making sense of the bells and whistles so you can get right down to snapping stunning photos. Covers shooting in auto mode and using live view and playback modes Explains how to dial in exposure and use lighting controls Includes easy tips for printing, posting photos online, and other ways to share images Gives you ten photo editing tricks and pro functions If you're an amateur photographer who wants better-than-entry-level gear, or a pro looking for a budget camera to add to your collection, Canon EOS 7D Mark II For Dummies has the information you need to get more bang for your buck out of this powerful camera.

David Busch's Canon EOS R Guide to Digital Photography is your all-in-one comprehensive resource

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and reference for the exciting new Canon EOS R full-frame mirrorless camera. It sports a high-resolution 30 MP sensor embedded with 5,655 Dual-Pixel phase detection AF points for lightning-fast, precise autofocus. The EOS R's 3.69 million dot electronic viewfinder provides a bright, clear view. Three available mount adapters make it easy to supplement your R-mount lenses with a broad selection of legacy Canon EF and EF-S optics. The EOS R has Wi-Fi/ NFC connectivity to allow linking the camera to a computer and iOS or Android smart devices, high-definition movie-making capabilities, and a versatile swiveling touch screen LCD. With this book in hand, you can quickly apply all these advanced features to your digital photography, while boosting your creativity to take great photographs with your Canon EOS R.

Filled with detailed how-to steps and full-color illustrations, *David Busch's Canon EOS R Guide to Digital Photography* covers all this upscale camera's features in depth, from taking your first photos through advanced details of setup, exposure, lens selection, lighting, and more, and relates each feature to specific photographic techniques and situations. Also included is the handy EOS R "roadmap" chapter, an easy-to-use visual guide to the camera's features and controls. Learn when to use each option and, more importantly, when not to use them, by following the author's recommended settings for every menu entry. With best-selling photographer and mentor David Busch as your guide, you'll quickly have full creative mastery of your camera's

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capabilities, whether you're shooting on the job, as an advanced enthusiast, or are just out for fun. Start building your knowledge and confidence, while bringing your vision to light with the Canon EOS R today.

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The Canon EOS 6D is Canon's smallest and lightest full-frame DSLR camera to date and boasts an extensive feature set. This full-color, portable guide goes beyond the owner's manual to deliver clear, succinct descriptions of how these features and functions work and explains how they affect the resulting photos. With the expert advice and clear instructions, the Canon EOS 6D Digital Field Guide makes this sophisticated camera accessible to even first-time DSLR users. Helps you to consistently achieve professional-level photography using the Canon EOS 6D. Walks you through the essential controls, features, and functions using step-by-step instructions and providing full-color images of each menu screen. Shows you how to get the exact shots you want, when you want them, and is packed with beautiful color photos. Shoot in Live View, choose the best settings for movie-making, and learn how to share your images and video online via the built-in Wi-Fi. Includes step-by-step techniques and professional tips on taking exceptional photos with your Canon EOS 6D. Canon EOS 6D Digital Field Guide is packed with so much helpful advice for getting the most out of your Canon EOS 6D, you'll find yourself referencing it again and again.

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Guides you step-by-step through the functions on your new Canon EOS 5D Mark III dSLR camera The Canon EOS 5D Mark III full-frame dSLR camera features an impressive 22.3 megapixels, a 3.2-inch LCD screen, 6 fps continuous shooting, Live View, an ISO range of 50 to 102,400 and full HD 1080 resolution movie shooting. Here to help you get the most out of these remarkable features and offering you more in-depth coverage than the standard manual, this full-color Canon 5D Mark III Digital Field Guide provides you with guidance on how and when to use each button, dial, and menu option. Delivering information in an easy-to-understand format, this portable guide features more than 200 inspirational photos by acclaimed photographer and veteran author Charlotte Lowrie. The handy trim size allows this guide to go where you go, providing you with easy access to information quickly so you can get the exact shot you want when you want it. Helps you make the most of your Canon EOS 5D Mark III and get the shots you want Offers full detailed coverage of when and how to use each and every button, dial, and menu option on this sophisticated new dSLR Provides step-by-step explanations on techniques and tips, all aimed at getting you comfortable and confident with your new Canon 5D Mark III Sized to fit in a camera bag, the book includes a bonus gray and color checker card to help you capture perfect white balance and color every time. Ideal reading for both amateur and professional photographers alike, you'll reference Canon 5D Mark III Digital Field Guide again and again.

Gain a thorough understanding of the nuanced and multidimensional role producers play in television and new media today. Harness the creative, technical, interpersonal, and financial skills essential for success in this vibrant and challenging field. Producing for TV and New Media third edition is your guide to avoiding the obstacles and pitfalls

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commonly encountered by new and aspiring producers. New to this edition: * "Focus on New Media" sections that highlight emerging media, web video, and mobile/small format media * New sample production forms and contracts * New review questions accompanying each interview and chapter * All new interviews with industry professionals offer practical insight into cutting edge developments in television and new media production * Fresh analysis of new media technology * A revised and revamped companion website with all the sample forms and contracts in the book, updated web link resources, and much more Written especially for new and aspiring producers, with insight that simply cannot be found in any other books, this new edition is an indispensable guide for anyone looking to find success as a new media or TV producer.

Dramatic advancement in technologies for high-speed high-resolution digital cameras in recent years enables the development of camera-based full-field noncontact measurement systems for vibration testing of flexible multibody systems undergoing large rigid-body motion and elastic/plastic deformations. A few of such systems exist in today's metrology market, but they are inconvenient for use and prohibitively expensive. Most seriously, they are not really appropriate for structural vibration testing because their measurement accuracy is low due to several technical reasons, including inappropriate setting of cameras and experimental setup because of user's innocence of videogrammetry, non-precise corner detection and other problems of image processing techniques, and inaccurate modeling and calibration of cameras. This thesis develops and puts together a complete set of necessary techniques for the development of a camera-based noncontact full-field vibration measurement system using inexpensive off-the-shelf digital cameras. An optimal combination of appropriate methods for

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corner detection, camera calibration, lens distortion modeling, and measurement applications is proposed and numerically and experimentally verified. Moreover, we derive/improve some image processing methods and 3D reconstruction algorithms to improve vibration measurement accuracy. The proposed methods include: 1) a corner detection method for processing 2D images with sub-pixel resolutions, 2) an improved flexible camera calibration method for easy and fast calibration with high accuracy, 3) a lens distortion model for correcting radial, decentering, and thin prism distortions, 4) a set of guidelines for setting up cameras and experiments for measurement, and 5) algorithms for measurement applications. The proposed corner detection method improves Foerstner's corner detector, which improved Moravec's and Harris's corner detectors. The proposed camera calibration method improves Zhang's flexible technique, which works without knowing the object's 3D geometry or computer vision. The method only requires the camera to observe a planar pattern (e.g., a checker board) shown at two or more independent orientations by arbitrarily moving the planar pattern (or the camera). Estimation of the camera's intrinsic parameters (i.e., focal length, principal point, the skewness parameter and aspect ratios of the two image axes, and lens distortion parameters) and extrinsic parameters (i.e., camera's location and orientation with respect to the referential world coordinate system) consists of an approximate initial guess based on linear closed-form solutions and then nonlinear optimization for refinement. This approach is between the photogrammetric calibration and the self-calibration. Compared with photogrammetric calibration techniques that use expensive calibration objects of two or three orthogonal planes, the proposed technique is easy to use and flexible. To examine the proposed methods and their combined effects against high measurement accuracy, two

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Canon EOS-7D DSLR cameras are used for theoretical studies and experimental verifications. Numerical and experimental results show that the recommended methods together with our improved image processing techniques is feasible for the development of a camera-based noncontact full-field vibration measurement system with high precision and low cost. This camera-based measurement instrument has the potential for developing new structural testing techniques and can open new possibilities for research and development in mechanical and aerospace engineering, computer science, animal science, and many other fields.

DAVID BUSCH'S COMPACT FIELD GUIDE FOR THE CANON EOS 7D MARK II is the perfect camera-bag-friendly book to help you make the most of your new Canon when you're shooting on the go. This full-color, lay-flat, spiral-bound reference gives you the information, tools, and techniques you'll need to achieve beautiful results with the Canon EOS 7D Mark II, whose new features include phase detection autofocus during live view/movie shooting and built-in GPS. This compact field guide includes helpful checklists, tables, and charts, and it walks you through the camera's features and functions, showing you how to shoot great photos under a variety of conditions. Full-color illustrations show what to expect from specific camera settings. From quick setup advice through tips on lighting, lenses, and more, DAVID BUSCH'S COMPACT FIELD GUIDE FOR THE CANON EOS 7D MARK II will help you get great results in the field every time.

This book presents papers from the International Conference on Sustainable Civil Engineering and Architecture 2019, which was held in Ho Chi Minh City, Vietnam, from 24–26 October 2019. The conference brought together international experts from both academia and industry to share their knowledge and experiences, and to facilitate collaboration

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and improve cooperation in the field. The book highlights the latest advances in sustainable architecture and civil engineering, covering topics such as offshore structures, structural engineering, construction materials, and architecture.

This book gathers a selection of papers presented at ROBOT 2019 – the Fourth Iberian Robotics Conference, held in Porto, Portugal, on November 20th–22nd, 2019. ROBOT 2019 is part of a series of conferences jointly organized by the SPR – Sociedade Portuguesa de Robótica (Portuguese Society for Robotics) and SEIDROB – Sociedad Española para la Investigación y Desarrollo en Robótica (Spanish Society for Research and Development in Robotics). ROBOT 2019 built upon several previous successful events, including three biannual workshops and the three previous installments of the Iberian Robotics Conference, and chiefly focused on presenting the latest findings and applications in robotics from the Iberian Peninsula, although the event was also open to research and researchers from other countries. The event featured five plenary talks on state-of-the-art topics and 16 special sessions, plus a main/general robotics track. In total, after a stringent review process, 112 high-quality papers written by authors from 24 countries were selected for publication.

With the introduction of digital photography, unprecedented numbers of people are flocking to the art form, trying their hand at creating effective photographs of people, landscapes, still lifes, and other subjects. As the ranks of photographers swell, it becomes more and more difficult to achieve a standout body of work—something that sets your work apart from the barrage of images we are all inundated with on a daily basis. As Laurie and Kyle Klein prove in their new book, infrared capture may be that magic bullet. Infrared photographs have a mystical feel. Before the dawn of digital

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capture, infrared light waves, which are invisible to the naked eye, could only be captured using specialized films that required precise handling and a level of technical proficiency that most photographers lacked. Today, infrared films are largely unavailable; digital infrared is the wave of the future, and most photographers have a retired digital camera (whether an older-model DSLR or an old point & shoot camera) on hand that they can permanently modify for digital-only capture. So, you're ready to jump in and try your hand at producing wildly different images. Where do you start? In this book, Laurie and Kyle Klein present a brief history of infrared, then move on to discuss all of the nitty-gritty technical information you'll need to understand how those invisible wavelengths will be recorded in your camera and the steps you'll need to take to ensure the best-possible resulting photographs. The authors provide a plethora of sample images that show you how various materials—from skin, hair, and eyes to environmental subjects like the sky, trees, grasses, and clouds—will appear in your images. They also teach you how to previsualize the final image: You will learn to predict the way that the colors and tones you perceive with your naked eyes will be rendered in-camera. You will also learn how to effectively frame your subject(s) and scenes to draw the viewer's gaze into and through the frame in a predictable manner, and keep him or her visually engaged. With the basic theories of infrared capture and image design deftly handled, the authors discuss further artistic applications. You'll learn how to add selective color to your black & white infrared images and how to create color infrared images that take infrared capture to a whole new level. Finally, the educators detail basic image-editing strategies that will allow you to finesse the tones and contrast in your images. Armed with the scientific insights and artistic applications in this book, you will be able to easily branch into

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a new genre of creative capture—whether you're interested in pushing your creative abilities to new levels for self-satisfaction or are looking to offer your studio's clientele a new product line.

Get enlightened with this detailed coverage of Canon's Speedlite system. If you use a digital SLR camera, then you understand just how critical it is to have a capable flash. A Canon Speedlite shines a whole new light on taking photos with a Canon DSLR. This full-color, in-depth guide takes you beyond the standard manual that accompanies a Canon Speedlite and shows you the types of settings you can use on your camera when working with off-camera flashes. You'll explore the possibilities of wireless lighting with multiple speedlites as well as the creative effects you can achieve. Author, teacher, and professional photographer Michael Corsentino demystifies setting up a speedlite, synchronizing the speedlite equipment, and determining lighting ratios. He provides you with detailed, real-world information on using all of Canon's various Speedlite models including the new 600EX-RT and covers other Canon lighting system components such as the ST-E2 Wireless Transmitter, Macro Ring Lite, and Macro Twin Lites and OC-E3 Off-Camera Shoe Cord. Highlights how the Canon Speedlite system is a must-have accessory for exploring a new world of digital photography possibilities. Covers a number of Canon's Speedlites, including the 600EX-RT, 580 EX II, 430 EX II, 270 EX and 270 EX II, and the 320 EX. Shows you how to create an inexpensive and portable wireless studio lighting system that can go where you go. Demystifies

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setting up the speedlite, synchronizing the equipment, and figuring out lighting ratios Canon Speedlite System Digital Field Guide, 3rd Edition is a handy guide that shares real-world information and untangles the complexities of using the Canon Speedlite system. Get the most out of the new Canon EOS 7D with this fun and friendly guide The new Canon EOS 7D comes equipped with a huge 18.0 megapixel sensor, many beginner-friendly features to aid in getting great pictures, and a video mode that allows you to shoot video as well as stills. If you're looking to get the most from the features and functions that come with this dSLR, then this is the book for you! Written by a veteran author and experience photographer, this easy-to-understand guide shows you how to properly use all the capabilities of this new camera. Filled with page after page of full-color images, this book walks you through the features of the Canon EOS 7D and the software that accompanies it. Introduces you to the main features and functions of the new Canon EOS 7D Explains the on-board controls, shooting in auto mode, using live view and playback modes, and dialing in exposure and lighting controls Walks you through manipulating focus and color controls and handling situational shooting Addresses getting photos onto a PC for editing Prepare to take aim at maximizing all the features and functions that the Canon EOS 7D has to offer with this helpful book by your side! Digital cameras are probably one of the most common electronics found in typical American households. The use of digital cameras has allowed anyone to become a photographer without the expensive equipment that was

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previously needed. This volume describes the evolution of the digital cameras, along with the parts that make up the camera. The book also deals with what modes should be used in certain settings, and how the explosion of photographs available online has led to privacy concerns.

A full-color reference-and-DVD package covers shooting and editing a successful multimedia project With the introduction of dSLRs with high definition video functionality, a new world of multimedia capture has been opened to digital photographers. This book shows you how to embrace the exciting new option of photo fusion, by incorporating digital video content with your photography. The author duo guides you through creating seamless multimedia presentations that maximize both still-frame and video photography functions on your dSLR. From the setting up and shooting, to downloading, editing and presenting a multimedia project, this book clearly explains how to move beyond stills into the exciting world of multimedia creation. Encourages you to embrace the exciting possibilities of photo fusion in the field of wedding photography Explains how to incorporate digital video content with photography Walks you through all of the necessary steps for shooting and editing a memorable multimedia creation Details every aspect involved in setting up, shooting, downloading, editing, and presenting a multimedia project Features more than 200 color images and an indispensable DVD of inspiring examples Packed with more than 200 stunning images and featuring a 45-minute DVD, Photo Fusion presents

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you with inspiration and instruction so you can create your own multimedia projects. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

Now that you've bought the amazing Canon EOS 7D Mark II, you need a book that goes beyond a tour of the camera's features to show you exactly how to use the camera to take great pictures. With Canon EOS 7D Mark II: From Snapshots to Great Shots, you get the perfect blend of photography instruction and camera reference that will take your images to the next level! Beautifully illustrated with large, vibrant photos, this book teaches you how to take control of your photography to get the image you want every time you pick up the camera.

Follow along with your friendly and knowledgeable guide, photographer and author Jeff Revell, and you will: Learn the top ten things you need to know about shooting with the 7D Mark II Use the 7D Mark II's advanced camera settings to gain full control over the look and feel of your images Master the photographic basics of composition, focus, depth of field, and much more Learn all the best tricks and techniques for getting great action shots, landscapes, and portraits Find out how to get great photos in low light Learn the basics behind shooting video with your 7D Mark II and start making movies of your own Fully grasp all the concepts and techniques as you go, with assignments at the end of every chapter And once you've got the shot, show it off! Join the book's Flickr group, share your photos, and discuss how you use your 7D Mark II to get great shots at flickr.com/group/7dmarkii_fromsnapshotsstogreatshots.

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Don't waste valuable time and budget fixing your footage in post! Shoot the effects you want effectively and creatively the first time. This full-color step-by-step guide to visual effects cinematography empowers you to plan out and execute visual effects shots on a budget, without falling into the common pitfall of using high-end computer graphics to "fix it in post, which can be an expensive, drawn out process. Instead, learn how to put your shots together before you start shooting-whether you're working in digital or film. Learn how to effectively photograph and create miniatures, matte paintings, green screen set ups, crowd replication, digital rear projection, and so much more to create elements that will composite together flawlessly. The main purpose of effects is to promote the story, not just to wow an audience with amazing tricks created digitally. This book describes methods for creating seamless effects that don't call attention to themselves but enhance the scene as a whole. The technical foundations of film and digital capture are given in the introductory chapters of the book, and you are presented with real world scenarios that illustrate these basic concepts in a practical sense. Step-by-step illustrations of photographic element creation empower you to learn how to effectively pre-plan and execute your own visual effects challenges. Join the photographers who turn to the For Dummies series for useful guidance Nikon D780 For Dummies provides Nikon D780 users and owners with in-depth knowledge and practical advice about how to get great shots with their powerful camera. Written by professional photographer Doug Sahlin, this book gives quick and

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convenient answers to Nikon D780 users' most frequent and pressing questions. Nikon D780 For Dummies covers the topics you'll need to get started with your new D780 camera. The book includes clear guidance on topics like: · Exploring the Nikon D780 body · Getting to know the settings options · Seeing results from auto modes · Taking control of exposure · Looking into lens options · Using the flash effectively Written in the straightforward and pragmatic style known and loved by For Dummies readers around the world, Nikon D780 For Dummies is perfect for people just starting out with digital SLR photography as well as those who know their way around a camera.

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