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The Nikon Autofocus System, 2nd Edition Passive Auto-focus for Digital Still Cameras and Camera Phones Photographer's Guide to the Sony DSC-RX10 IV Focus and Filter Digital Photography For Dummies Digital Macro and Close-Up Photography For Dummies Digital Camera Techniques Nikon D90 Nikon D3100 For Dummies PCPhoto Best Tips and Techniques for Digital Photography How to Do Everything with Your Digital Camera, Fourth Edition 50 Things Photographers Need to Know About Focus Focus On Close-Up and Macro Photography (Focus On series) How to Do Everything: Digital Camera Nikon D60 How to Do Everything with Digital Photography Digital Cinematography How to Photograph the Moon and Planets with Your Digital Camera The Nikon D90 Companion Photographer's Guide to the Leica C-Lux Photographer's Guide to the Nikon Coolpix P1000 Nikon D5100 For Dummies Focus On Composing Photos Reframing Photography PC Mag Nikon D7000 For Dummies PCPhoto Digital Compact Camera Handbook Shooting Digital Digital Photography All-in-One Desk Reference For Dummies Complete Digital Photography, 9th Edition Developing Enterprise Chatbots Nikon D3000 For Dummies The Camera Assistant's Manual Real-time Face-priority Auto-focus and Adaptive Auto-exposure for Digital and Cell-phone Cameras Nikon D5500 For Dummies Canon EOS Rebel T3i / 600D For Dummies Digital Photography For Dummies®, Mini Edition Canon EOS Digital Rebel XS/1000D 50 Fast Digital Camera Techniques David Busch's Sony Alpha a7 IV Guide to Digital Photography

Explains how to evaluate digital cameras, compose and capture scenes, adjust color balance, crop out unwanted elements, sharpen focus, apply special effects, and prepare images for printing. In order to gain valuable market share in the growing consumer digital still camera and camera phone market, camera manufacturers have to continually add and improve existing features to their latest product offerings. Auto-focus (AF) is one such feature, whose aim is to enable consumers to quickly take sharply focused pictures with little or no manual intervention in adjusting the camera's focus lens. While AF has been a standard feature in digital still and cell-phone cameras, consumers often complain about their cameras' slow AF performance, which may lead to missed photographic opportunities, rendering valuable moments and events with undesired out-of-focus pictures. This dissertation addresses this critical issue to advance the state-of-the-art in the digital band-pass filter, passive AF method. This method is widely used to realize AF in the camera industry, where a focus actuator is adjusted via a search algorithm to locate the in-focus position by maximizing a sharpness measure extracted from a particular frequency band of the incoming image of the scene. There are no known systematic methods for automatically deriving the parameters such as the digital pass-bands or the search step-size increments used in existing passive AF schemes. Conventional methods require time consuming experimentation and tuning in order to arrive at a set of parameters which balance AF performance in terms of speed and accuracy ultimately causing a delay in product time-to-market. This dissertation presents a new

framework for determining an optimal set of passive AF parameters, named Filter- Switching AF, providing an automatic approach to achieve superior AF performance, both in good and low lighting conditions based on the following performance measures (metrics): speed (total number of iterations), accuracy (offset from truth), power consumption (total distance moved), and user experience (in-focus position overrun). Performance results using three different prototype cameras are presented to further illustrate the real-world AF performance gains achieved by the developed approach. The major contribution of this dissertation is that the developed auto focusing approach can be successfully used by camera manufacturers in the development of the AF feature in future generations of digital still cameras and camera phones.

Jump into photography and the Nikon D5500 with this easy-to-read guide Armed with the new Nikon D5500 digital camera, but don't know where to start? No problem! Nikon D5500 For Dummies is the definitive guide to helping newbies and aspiring photographers get up and running with this great DSLR camera. You'll dive right in to using your camera in automatic mode, then build on this basic knowledge by learning about manual settings, exposure, and more advanced techniques that will have you taking great photographs in a flash. This easy-to-use guide combines the tips and tricks of a basic photography course with camera-specific guidance that will help you with the Nikon D5500's basic settings, manual mode, WiFi connectivity, touchscreen interface, and so much more! The Nikon D5500 is the perfect camera for a connected generation — it offers the features of a DSLR with the connectivity of a smart phone and, but its high-quality photos go well beyond what you can snap from your phone. With this fun guide, you'll take your photography to the next level! Get started with a roadmap of the Nikon D5500 controls and options for taking photos in automatic mode, with preset shooting modes, or in manual mode. Take a crash course on exposure and how to control it, along with lens and flash options of your camera Find out how to adjust color and focus, use manual settings, and take photos in scene mode and priority mode Pull all your newfound photography chops together to take better portraits, action shots, night photos, and outdoor shots

Nikon D5500 For Dummies is the guide you need to get up and running quickly and easily with your great new DSLR camera. This book is a complete guide to the Sony Cyber-shot DSC-RX10 IV camera. With this book, author Alexander S. White provides users of the RX10 IV with a manual covering all aspects of the camera's operation. Using a tutorial-like approach, the book shows beginning and intermediate photographers how to accomplish things with the RX10 IV, and explains when and why to use the camera's many features. The book provides details about the camera's shooting modes as well as its menu options for shooting, playback, setup, video, Wi-Fi, and special effects. The book covers all features of the RX10 IV that are new for this model, including its enhanced focusing system with phase detection autofocus; its ability to use a touch screen for focusing and enlarging images in some situations; and a variety of new or enhanced menu options. The book includes more than 500 color photographs that illustrate the camera's controls, display screens, and menus. The images include photographs taken using the RX10 IV's Scene mode, with settings optimized for subjects such as landscapes, sunsets, portraits, and action shots; and its Creative Style and Picture Effect menu options, with settings that alter the appearance of images. The book provides concise introductions to topics such as street photography and infrared photography, and explains how to use the camera's Wi-Fi and Bluetooth features to transfer images to a smartphone or tablet, to control the camera from such a device, and to add location information to images. The book includes a full discussion of the video features of the RX10 IV, which can shoot HD and 4K (ultra-HD) movies, with manual control of exposure and focus during recording. The book explains the camera's numerous features for professional-level videography, including Picture Profiles that allow adjustment of settings such as gamma curve, black

level, knee, and detail. The book describes steps for recording 4K video to an external video recorder using the “clean” video output from the camera’s HDMI port. In three appendices, the book discusses accessories for the RX10 IV, including cases, power sources, remote controls, microphones and external flash units, and includes a list of websites and other resources for further information. The book includes an appendix with “quick tips” on how to take advantage of the camera’s features in the most efficient ways possible. This guide to the RX10 IV includes a detailed index, so the reader can quickly locate information about any particular feature or aspect of the camera. First published in 2014. With the shift from film to digital, a new view of the future of cinematography has emerged. Today’s successful cinematographer must be equal parts artist, technician, and business-person. The cinematographer needs to master the arts of lighting, composition, framing and other aesthetic considerations, as well as the technology of digital cameras, recorders, and workflows, and must know how to choose the right tools (within their budget) to get the job done. David Stump’s *Digital Cinematography* focusses primarily on the tools and technology of the trade, looking at how digital cameras work, the ramifications of choosing one camera versus another, and how those choices help creative cinematographers to tell a story. This book empowers you to both correctly choose the right camera and workflow for your project from today’s incredibly varied options, as well as understand the ins and outs of implementing those options. Stump sheds a light on the confusing advantages and disadvantages of shooting theatrical features using digital technology and what it can or can’t do. Topics covered include: * Detailed coverage of Arriflex, Blackmagic, Canon, Ikonoskop, Panasonic, Panavision, Phantom, Red, Silicon Imaging, Sony, and Weisscam digital motion picture cameras * Coverage of a wide variety of lenses, including Angenieux, Canon, Cooke, Fujinon, Hawk, Leica, Panavision, Red, Schneider, Sony, UniqOptics, Vantage, and Zeiss * Coverage of recorders, displays, and look management tools * Exposure theory tips - learn how to correctly expose digital cameras * Focusing tips - learn how to focus digital cameras correctly * Checklists to help design digital workflows * Practical tips on preparation - prepare for shooting a digital motion picture like a professional * Camera set-up and operation, color management, digital intermediates, 3D stereo cinematography, future trends, and much more If you aspire to be a successful cinematographer in this new digital age, or if you already are a working cinematographer in need of a resource to help you stay on top of your game, this is a must-read book. The best digital tips...from the world’s leading digital photo periodical! PCPhoto presents the ultimate beginners’ volume on going digital. It’s packed with the magazine’s best how-tos and tip-oriented articles, and covers information that’s indispensable for the newcomer. In short, it serves as a welcoming portal into the digital world. Shooting techniques, cameras, and accessories are just the beginning. There’s advice on using the camera controls and making sense of histograms, as well as coverage of a wide range of image processing options available in the digital darkroom. Check out the details of different types of editing software, and gain fundamental knowledge on how to create the best inkjet prints possible. There are 10 recipes for producing great photos, courtesy of PCPhoto editor Rob Sheppard and Wes G. Pitts; a list of digital dos and don’ts; guidance on color correction; and much, much more. An 816-page All-in-One guide designed for both beginning and experienced digital photographers, offering seven minibooks on everything from buying a camera and choosing the right equipment to editing with high-end tools and restoring photos digitally Includes chapters on basics such as point-and-shoot photography, with later chapters exploring editing, printing, and shooting portraits or high-speed action This new edition covers the latest technology changes in digital photography, including Photoshop 7, new low-priced SLR cameras, updated storage and output options with DVD technology, and how each of these changes affects photography

techniques David Busch is the author of more than fifty technology books, most covering digital photography, image editing, and digital restoration New coverage of Digital SLRs, the latest version of Adobe Photoshop Elements, and photo sharing services such as Flickr, Google Picasa, and Yahoo Photo Includes an all-new color insert The best photographs start with proper attention behind the camera before you take them. Jon Tarrant shows you how to achieve this by fully explaining how digital cameras work so you too can achieve professional-looking results without having to resort to image manipulation on a computer. Jon explains all the basics of digital cameras: their anatomy; an outline of broad classes, indicated by price bands and features offered; a comparison with existing families of film cameras as a useful guide to newcomers. He also provides an invaluable buyer's guide pointing out features to look for on a digital camera before you make your purchase. Coverage includes detail on lenses, exposure basics, 'correct' exposure, using flash, the chip and the implications of this 'restriction', image quality and retaining this quality, as well as discussion of the difficulties of digital cameras and sections on specific types of photography with digital cameras. Complete coverage is ensured with information on printing, storage and filing, the Internet as a medium of images, picture software and digital enhancement, always keeping the emphasis on the fact that the most important consideration is how you take the photographs and the vision you had then and knowing when to stop tinkering with your image! This inspirational, full colour guide is what all digital camera owners have been waiting for. Jon Tarrant shows all keen digital photographers how to improve their photography and make the most of the latest technology. Learn all about the Nikon D7000?the fun and friendly For Dummies way! Whether you're a digital camera beginner or an experienced photographer, this is the book you need to get the most out of the Nikon D7000, the update to Nikon's popular D90 model. The helpful tips and tricks in this fun and easy guide will get you quickly up to speed on the D7000's 16-megapixel sensor, 1080 HD video capabilities, eight-frames-per-second burst, improved ISO, and much more. Helps you get every bit of functionality out of the Nikon D7000 camera Walks you through its exciting new features, including the 16-megapixel sensor, 1080 HD video, 8-frames-per-second burst, improved ISO, and 39 autofocus points Guides you through the basics and beyond on lighting, exposure, focus, and color Reviews the important steps of getting photos from the camera to a PC, developing an effective file system, and sharing photos via print or online Shares photo-retouching tips and unique features of the camera that can be applied to various shooting situations Shoot stills, shoot video, and shoot, you're a professional photographer! It all starts here, with this great guide. A unique, full-color guide to the art of taking amazing photos with a digital camera Aimed at photographers of all levels and ranges of interest, this new edition of Aaland's popular guide takes readers beyond the technology of the latest cameras and equipment to teach them the unique aesthetics of the digital image. Helpful examples explain how to take full advantage of RAW file formats, JPEG 2000, panorama automation, and more. Mikkel Aaland (San Francisco, CA) is an award-winning photographer and author whose photography has been published in magazines and exhibited around the world. Want to get the best out of your digital camera? Not quite sure how to capture up-close shots? Want easy to follow, expert advice on the best ways to creatively capture macro shots you can be proud of? This is your ticket to go beyond a snapshot to create a fine art print that you'll be so proud of. Macro and close-up photography involves a unique skill set in terms of exposure, lighting, and of course, composition in particular. You can take a quick photo of a sunflower in your back yard that will look mundane and typical OR you could learn how to take a picture of just a part of it-up close-and create a work of art. Let this book be your guide! * In the perfect companion to the bestselling 50 Fast Digital Photo Techniques (0-7645-3578-1), three highly acclaimed professional

photographers share 50 all-new fast, easy, and powerful camera tricks both professionals and creative amateurs can learn to use almost instantly * Where the first book focused on digital editing techniques, this one explores using digital cameras, lighting, filters, and concepts to produce professional results with "wow!" * Lavishly illustrated with stunning professional photos * Cross-platform for Windows and Mac, and tailor-made for the exploding digital photography market * Companion Web site and CD-ROM are both packed with all images from the book as well as valuable utilities Although astronomical CCD cameras can be very costly, digital cameras – the kind you use on holiday – on the other hand, are relatively inexpensive. Moreover, their technology – especially thermal noise, sensitivity (ISO number) and resolution – has progressed to a point where such cameras are more than capable of photographing the brighter astronomical objects. Now Tony Buick has teamed up with fellow author and astro imager Phil Pugh, to produce a completely revised, updated, and extended second edition to *How to Photograph the Moon and Planets with your Digital Camera*, first published in 2006. The revisions take into account changing (and improving) camera technology, and some items which are now available commercially but which previously had to be home-made. The section of solar observing has been expanded to include observing by H-alpha light, and among the many additional sections are photographing the constellations, aurorae, and basic post-imaging processing. Here's a simple solution for learning how to get the most out of your digital camera, how to take better photos, and what to do with your images once they've been captured. Written by an award-winning photographer, *How to Do Everything with Your Digital Camera, Fourth Edition* is just the book you need! Loaded with clear explanations and step-by-step-details, the book explains the different components of a variety of digital cameras and how to use them. Coverage includes flash and lighting tips, action and outdoor photography, various image-editing packages, and finally, organizing, storing, sharing, and printing digital images. The new edition of this best-seller has been updated to include details on removable storage devices and the latest utilities and photo-sharing facilities. Auto-focus (AF) and Auto Exposure (AE) are key features in consumer level digital and cell-phone cameras allowing users to focus automatically and set the exposure automatically. AF provides automatic focusing in order to get sharp images with no user intervention. AE is also a key factor for automatically obtaining images with the right amount of brightness exposure. While there are many algorithms in the literature addressing the issues of AF and AE, most of these algorithms do not take into consideration speed, accuracy and cost of deployment on actual digital and cell-phone camera platforms. The first part of this dissertation involves the development and implementation of a Face-Priority AF algorithm due to the fact that the great majority of pictures taken by consumers are of human faces. In Face-priority AF, the focusing decision is made based on a detected face area in the image, thus capturing a sharp picture of the face. Although a number of face detection algorithms have appeared in the literature, their use is limited when considering their real-time software deployment on resource limited digital or cell-phone camera processors. A fast software Face-priority AF algorithm is introduced in this dissertation by combining a skin color model with a computationally efficient shape processing scheme. This algorithm is compared with a conventional algorithm in terms of speed and accuracy. A real-time implementation of this Face-priority AF is achieved on an actual digital camera platform. The second part of this dissertation involves the development and implementation of a novel AE algorithm named Adaptive AE. It is shown that this algorithm provides a more effective auto-exposure solution, in particular in poor lighting conditions. Conventional AE methods utilize the image brightness in one way or another to set the right exposure level, whereas the developed AE method uses the maximization of an information theory measure. It is shown that the developed AE solution generates more effective

exposure setting in terms of contrast and brightness deviation. A real-time implementation of the Adaptive AE algorithm is also achieved on an actual digital camera platform. Open up this richly illustrated volume and find in-depth instruction, with all relevant concepts, operations, and terms. In an accessible yet complex way, Rebekah Modrak and Bill Anthes explore photographic theory, history, and technique to bring photographic education up to date with contemporary photographic practice. -- David Busch's Sony Alpha a7 IV Guide to Digital Photography is the most comprehensive resource and reference for Sony's long-awaited 33-megapixel full frame mirrorless camera. Capable of 10 frame-per-second bursts even at full resolution, the a7 IV is fast enough for action photography, and its enhanced dynamic range delivers the image quality that the most demanding landscape or fine-art photographer requires. This camera's remarkable low-light performance, fast sensor-based phase detect autofocus (with real-time face and eye tracking in both still and movie modes), and improved 5-axis in-body image stabilization, the a7 IV has all the tools needed to take incredible images. This book will show you how to master those features as you explore the world of digital photography and hone your creativity with your a7 IV. Filled with detailed how-to steps and full-color illustrations, David Busch's Sony Alpha a7 IV Guide to Digital Photography covers every feature of this camera 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 camera "roadmap" chapter, an easy-to-use visual guide to the camera's features and controls. Learn when to use every option and, more importantly, when not to use them, by following the author's recommended settings for each menu entry. With best-selling photographer and mentor David Busch as your guide, you'll quickly have full creative mastery of your camera's capabilities, whether you're shooting on the job, as an advanced enthusiast exploring full frame photography for the first time, or are just out for fun. Start building your knowledge and confidence, while bringing your vision to light with the Sony a7 IV. Unlock all the secrets of the powerful new Nikon D3100 DSLR camera Author Julie King knows how to teach newbies, and in this handy guide she'll help you get the very most out of the powerful new Nikon D3100. Say you're already an experienced photographer? The helpful tips and tricks in this friendly book will get you quickly up to speed on the D3100's new 14-megapixel sensor, continuous video/live focus, full HD video, expanded autofocus, and more. As a seasoned instructor at the Palm Beach Photographic Center, Julie anticipates all questions, whether you're a beginner or digital camera pro, and offers pages of easy-to-follow advice. Helps you get every bit of functionality out of the new Nikon D3100 camera Walks you through its exciting new features, including the 14-megapixel sensor, continuous video/live focus, full HD video, expanded autofocus, and the updated in-camera menu Explores shooting in Auto mode, managing playback options, and basic troubleshooting Explains how to adjust the camera's manual settings for your own preferred exposure, lighting, focus, and color style Covers digital photo housekeeping tips how to organize, edit, and share your files Tap all the tools in this hot new DSLR camera and start taking some great pix with Nikon D3100 For Dummies. In this newly updated, ninth edition of the best-selling photography book—in print since 1999—Ben Long guides you through the creative and challenging world of digital photography. Complete Digital Photography 9 has everything you need to know to create great photos: from how to master your camera, to learning about composition, lighting, image editing, workflow and output. Ben also includes a number of shooting exercises in the front part of the book to help you get comfortable with photographic techniques, and there are extensive step-by-step tutorials designed to help you master image editing in Adobe Lightroom, Photoshop and other apps. With Ben's easy-going, comprehensive teaching style, you'll be amazed at the results you get from

Complete Digital Photography. Avoid the time-consuming task of image editing by taking great pictures from the get-go. Dave Huss walks you through the fundamentals of taking great digital photographs by dispelling digital photography myths and teaching you how to maximize all camera features available to you. Discover how to take clear, sharp, professional-level photographs every time; use light wisely; use flash photography to your advantage; match your camera to your computer; share your photos, and much more. **AMAZON #1 BESTSELLER & #1 HOT NEW RELEASE IN PHOTOGRAPHY LIGHTING!** Indispensable tricks and techniques for great photos in any situation. Free yourself from Auto mode! Revealing insider secrets and easy-to-learn techniques for stunning photos, this book teaches you how to take beautiful, professional-quality images anywhere with DSLR or mirrorless cameras. **Focus & Filter**, a must-have guide by award-winning photographer Andrew Darlow, features 50 techniques, 50 Pro Assignments and more than 250 color photographs that show you how to capture: • **CANDID AND FORMAL PORTRAITS • SAFARI QUALITY ANIMAL PICTURES • SPECTACULAR NIGHTTIME CITYSCAPES • BREATHTAKING FIREWORKS PHOTOS • DRAMATIC HIGH-SPEED MOTION • MOUTHWATERING FOOD PHOTOS • GLARE-FREE SHOTS THROUGH GLASS** Whether you are advancing a hobby or a career in photography, **Focus & Filter** includes all the technical advice you need to hone your skills, from choosing your equipment and setting up your studio to mastering camera settings, working in the field, and building rapport with your models. While focusing your camera seems like it should be a no-brainer—there’s autofocus, after all!—it’s often not a simple task. Depending on the shooting situation, your camera, and the countless scenarios that can “throw off” the focus, the task of achieving sharp images with great focus can be deceptively challenging. If you’re a passionate photographer eager to learn the best ways to achieve tack-sharp focus in your images, these 50 focus-based principles are exactly what you need to take your work to the next level. With photographer and author John Greengo as your guide, you’ll quickly learn nearly four dozen techniques for achieving focus in every shooting situation. You’ll learn: • How to optimize autofocus no matter what kind of camera you have (DSLR or mirrorless) • How to master manual focus • Which focus modes and focus areas work best for different situations • How to use your camera’s autofocus aids, such as magnification and focus peaking • Techniques to keep your camera stable, either handheld or on a tripod • How shutter speed and aperture affect sharpness

Written in the author’s friendly and approachable style, and illustrated with examples that clearly show how each technique can help you capture great photos, **50 Things Photographers Need to Know About Focus** is designed to be an effective, fast, and fun way to learn how to achieve great focus in your images—no matter what situation. **TABLE OF CONTENTS** Chapter 1: Focus Basics Chapter 2: Autofocus Chapter 3: Mirrorless Autofocus Chapter 4: DSLR Autofocus Chapter 5: Customized Autofocus Controls Chapter 6: Autofocus Aids Chapter 7: Autofocus and Lenses Chapter 8: Manual Focus and Lenses Chapter 9: Exposure Control for Focus Chapter 10: Advanced Focusing Techniques Chapter 11: Other Focus Topics

Excel as an Assistant Cameraman (AC) in today’s evolving film industry with this updated classic. Learn what to do—and what NOT to do—during production and get the job done right the first time. **The Camera Assistant’s Manual, Sixth Edition** covers the basics of cinematography and provides you with the multi-skill set needed to maintain and transport a camera, troubleshoot common problems on location, prepare for job interviews, and work with the latest film and video technologies. Illustrations, checklists, and tables accompany each chapter and highlight the daily workflow of an AC. This new edition has been updated to include: A fresh chapter on the entry level camera positions of Camera Trainee/Production Assistant Coverage of emerging iPhone apps that are used by filmmakers and ACs on set An updated companion

website offering online tutorials, clips, and techniques that ACs can easily access while on location (www.cameraassistantmanual.com) All new sample reports and forms including AC time cards, resumé templates, a digital camera report, and a non-prep disclaimer Instruction and custom forms to help freelance filmmakers keep track of daily expenses for tax purposes The Camera Assistant's Manual, Sixth Edition is an AC's bible for success and a must-have for anyone looking to prosper in this highly technical and ever-changing profession. Focal Digital Camera Guides: Nikon D60 Just bought a Nikon D60 and looking to combine practical know-how with inspiration? This one-stop, easy-to-read guide covers all the basic functions of the camera, and everything beyond. For the basics, turn to the quick start guide, which will get you up and running in five minutes. For an understanding of your camera's many controls and features, check out the section called "The Camera." If all you need is a quick explanation, you'll find it. If you're looking for the Whole Story, you'll find that, too. Settings that affect how your pictures look are accompanied by full-color examples that show you exactly what you can expect. This section also covers the camera's menus, playback features, memory cards, and power sources. The section called "Software" shows you how to get the most out of your camera's software. It covers downloading, editing your photos, RAW conversion, storing your images, managing your library, and backup strategies - to name just a few topics. Ultimately, this book's greatest strength isn't its focus on the camera or the software; it's the detailed, easy-to-follow instruction it offers on using your camera to take truly superior photographs. Sections devoted to lenses, subject matter, and light cover these variables in depth, always presenting the most effective techniques in the context of the strengths and limitations of the Nikon D60. Written by a widely acclaimed photographer and photography instructor, Nikon D60 shows you how to get the shots you can see in your head but have never been able to capture with a camera. *

- * The quick start guide will have you taking great photos in five minutes.
- * In-depth coverage of every feature and control ensures that you have access to the tools you need for every shot.
- * Full-color examples demonstrate how different settings affect your photos.
- * Expert coverage of lenses, lighting, and subject matter gives you the practical knowledge you need to go after any shot.
- * Step-by-step instructions on photo editing and image management help you get the most out of your camera's software.
- * A detailed review of accessories for your camera explains which of these add-ons offer the most value for your needs.
- * Dozens of tips and tricks prepare you for every situation you're likely to encounter - in the field, at the studio, or at your next wedding or family reunion.

Presents digital photography for people who use the Nikon D90. This book shows you how to capture decisive moments, including fast-moving objects, and discover ways to use a flash indoors and outdoors. It lets you learn about different lenses, and the best time to use them. It discusses the use the D90's ability to shoot high definition video. A picture-perfect beginner guide to the new Nikon D5100 Eager to take a shot at using the exciting new Nikon D5100? Then this is the introductory book for you! Aimed at first-time DSLR shooters who need a friendly guide on how to use their camera, this straightforward book is packed with full-color images that help demonstrate how to use features of the Nikon D5100. Coverage explores the on-board effects, low-light settings, and automatic HDR shooting. Clear explanations detail the ways in which you can use the new features of the Nikon D5100 to add unique shots to your portfolio while an explanation of photography terms gets you confident and savvy with this fun DSLR camera. Covers basic camera controls and functions, shooting in auto mode, setting photo quality, and navigating menus and the view screen Introduces the basics of photography, including the settings that control lighting, exposure, focus, and color Addresses the new low-light and HDR settings Encourages you to use the new onboard effects features and shares tips for improving images with editing software Get a grasp on the fun Nikon D5100 with this fun and

friendly guide! Just bought a Canon EOS Digital Rebel XS/1000D and looking to combine practical know-how with inspiration? This one-stop, easy-to-read guide covers all the basic functions of the camera, and everything beyond. Inside, you'll find detailed explanations of every control and every feature, including full-color illustrations showing how changing each setting will affect your photos. But this book's greatest strength isn't its focus on the camera; it's the detailed, easy-to-follow instruction it offers on using your camera to take superior photographs. The lens, the subject matter, the light—all these variables are covered in depth, and always in the context of the Canon EOS Digital Rebel XS/1000D. Written by a widely acclaimed photographer and teacher, Canon EOS Digital Rebel XS/1000D shows you how to get the shots you can see in your head but have never been able to capture with a camera. .Get up and running in five minutes with the quick start guide .Master your camera's many features and controls .Profit from dozens of tips and tricks .See first-hand how different settings affect your photos .Refine and manage your photos using the Canon software .Be inspired by hundreds of gorgeous, full color photographs, and learn how to get the same effects in your own shots A full-color guide to Canon's exciting new DSLR camera Whether it's your first DSLR, your first Canon camera, or simply a new tool for your photography, your Canon Rebel T3i/600D has countless capabilities and you'll want to understand them all. This book covers all the dials, menus, and controls, showing you how to use each one. It explains how to change and use various lenses and offers advice on exposure, focus, printing, using flash, sharing photos online, and much more, all with plenty of full-color examples to show what you can achieve. Canon's popular T3i/600D offers a vast array of options for the new DSLR photographer; this book guides you through all these settings, dials, and menus Explains how to use Live View mode and record, edit, and playback video Provides tips and advice on working with exposure, manipulating focus and color, switching from auto to manual controls, and using lighting creatively Shows how to get photos from the camera to the computer, then edit and manage them using different software packages Illustrated with full-color photos from the author, showing what you can achieve This fun and friendly book helps you to quickly and confidently take advantage of the many creative possibilities offered by your new Canon camera. Professional photography advice for D3000 beginners The Nikon D3000 is Nikon's new entry-level camera. With the D3000, you get all the features of Nikon's older cameras along with an updated battery, larger monitor, and improved focus features. In addition, the D3000 also offers simpler menus to help first-time DSLR users. Assuming no prior DSLR knowledge, veteran author Julie Adair King offers you a tour of the camera body, a hands-on how-to on all the features of the D3000, and a step-by-step walkthrough of how to get the photos you want. Explains shooting in auto mode, reviews the new video option, and covers working with file size and quality Walks you through shifting out of automatic mode and using the D3000's lighting, exposure, focus, and color features Demonstrates getting photos from your camera to your PC, developing an effective file system, and sharing photos via print, online, or other ways Packed with useful tips, this helpful guide encourages you to take control of your camera. Master macro techniques and capture brilliant up-close photos Macro photography uses specialty lenses and advanced digital cameras to capture stunning up-close images. This book helps you understand the nuances of macro techniques so you can take unique and remarkable close-up digital photos. Equipment recommendations, helpful tips, and coverage of specialized elements that are exclusive to macro photography all aim to make you more savvy and comfortable with macro and close-up techniques. In addition, the easy-to-follow steps and suggested exercises go a long way to make you more familiar with your camera's capabilities so that you can take fantastic photos. Introduces the techniques of macro photography and explores how to capture stunning close-up digital photos Reviews using macro lenses, extension tubes,

reversing rings, and other camera equipment and accessories Shares tips for exposure and lighting techniques in the macroformat Addresses depth of field, working distance, and framing when shooting Covers where to find subjects to shoot and setting up your macro studio With full-color examples and technique comparisons, this fun and friendly book presents step-by-step guidance for taking your close-up photography skills to the next level. Just bought a Nikon D60 and looking to combine practical know-how with inspiration? This one-stop, easy-to-read guide covers all the basic functions of the camera, and everything beyond. Inside, you'll find detailed explanations of every control and every feature, including full-color illustrations showing how changing each setting will affect your photos. But this book's greatest strength isn't its focus on the camera; it's the detailed, easy-to-follow instruction it offers on using your camera to take superior photographs. The lens, the subject matter, the light - all these variables are covered in depth, and always in the context of the Nikon D60. Written by a widely acclaimed photographer and photography instructor, the Nikon D60 Digital Camera Guide shows you how to get the shots you can see in your head but have never been able to capture with a camera. *Get up and running in five minutes with the quick start guide *Profit from dozens of tips and tricks *Master all of your camera's many features and controls *See first-hand how different settings affect your photos *Refine and manage your photos using the Nikon photo software *Be inspired by hundreds of gorgeous, full color photographs, and learn how to get the same effects in your own shots PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. As digital cameras and software packages become more advanced, seemingly by the minute, it has become easier than ever to overlook the basic elements which have always resulted in the best photographs, no matter how fancy (or primitive) the camera itself. Composition is the single most important aspect of creating great images, no matter what level of photographer you happen to be. No amount of digital wizardry can turn a badly composed image into a picture you would want to display. While many books on composition tend to overcomplicate the subject, this book breaks down everything you need to know into small, digestible chunks of information that you will actually remember once you're out and about taking pictures. Instead of plodding through long and complex pages of text, this book supplements the necessary information, such as the basics of the rule of thirds and how to get good highlights and shadows, with tons of gorgeous, full color images that actually show you what to do and how to do it, rather than just telling you what to try. You'll be amazed at the gorgeous images you'll create, whether your passion is for photographing your family, pets, travel adventures, nature, or anything else. This book is a complete guide to the operation of the Nikon Coolpix P1000 digital camera. The book explains all shooting modes, menus, functions, and controls of this superzoom camera, illustrated by more than 300 full-color images. The guide shows beginning and intermediate photographers how to get excellent results using the many features of the P1000. The book explains topics such as autofocus, manual focus, HDR (High Dynamic Range) photography, ISO sensitivity, memory cards, and flash modes. It discusses techniques for using the P1000's phenomenal zoom lens, with a maximum optical focal length of 3000mm, to full advantage. The book also explains the camera's features for remote control and image transfer using a smartphone or tablet with the P1000's built-in Wi-Fi and Bluetooth capabilities, as well as the camera's features for adding location data to images. The book includes sample photos taken with the creative options of the camera, including the Picture Control settings, which alter color processing of images; the Bird-watching, Moon, Creative, and Scene shooting modes, with settings optimized for subjects such as landscapes, pets, sunsets, and action shots; and the Coolpix P1000's features for burst

shooting and time-lapse photography. In addition, the book provides introductions to topics such as street photography, infrared photography, and macro photography. The book also explains the video features of the P1000, which can shoot 4K video and can record high-speed video sequences at speeds up to four times greater than normal, resulting in slow-motion footage when played back. In addition, the book describes procedures for using the Filter Effects option to add special effects to images after they have been captured. In its three appendices, the book discusses accessories for the Coolpix P1000, including external flash units, microphones, remote control devices, cases, and charging and power options. The appendices also include a list of useful web sites and other references, as well as a section with “quick tips” to help users take advantage of the camera’s features in the most efficient ways possible. This guide book to the P1000 camera includes a detailed Table of Contents and Index.

Photographer’s Guide to the Leica C-Lux is a complete guide to the use of the Leica C-Lux camera. The book shows beginning and intermediate photographers how to capture excellent images and video sequences with the C-Lux. The book explains the use of autofocus, manual focus, aperture, shutter speed, exposure compensation, white balance, and ISO, and many other settings. The book discusses the camera’s options for playback, setup, and customizing the operation of its controls. The book contains more than 480 color photographs showing the camera’s controls, display screens, and menus. The book includes photographs taken using the many creative settings of the camera, including the Photo Style settings; the Creative Control mode picture effects, which provide the ability to customize the appearance of images in dramatic ways; and the camera’s features for burst shooting and shooting in high-contrast lighting conditions. The book explains how to use the C-Lux’s innovative features such as Light Composition and Sequence Composition, which enable the creation of multiple exposures of scenes with bright flashes, such as fireworks, or motions such as sports events. The book includes a full discussion of the video recording abilities of the C-Lux camera, which offers manual control of exposure and focus during movie recording, and provides ultra-high definition 4K recording of motion pictures. The book also explains the camera’s features for extracting still images from 4K video and using the Post Focus feature to select a sharply focused image after a shooting session. In three appendices, the book discusses accessories for the C-Lux, including cases, power supply options, and other items, and includes a list of websites and other resources for further information. The book includes an appendix with helpful Quick Tips that explain how to take advantage of the camera’s features in the most efficient ways possible. A chatbot is expected to be capable of supporting a cohesive and coherent conversation and be knowledgeable, which makes it one of the most complex intelligent systems being designed nowadays. Designers have to learn to combine intuitive, explainable language understanding and reasoning approaches with high-performance statistical and deep learning technologies. Today, there are two popular paradigms for chatbot construction: 1. Build a bot platform with universal NLP and ML capabilities so that a bot developer for a particular enterprise, not being an expert, can populate it with training data; 2. Accumulate a huge set of training dialogue data, feed it to a deep learning network and expect the trained chatbot to automatically learn “how to chat”. Although these two approaches are reported to imitate some intelligent dialogues, both of them are unsuitable for enterprise chatbots, being unreliable and too brittle. The latter approach is based on a belief that some learning miracle will happen and a chatbot will start functioning without a thorough feature and domain engineering by an expert and interpretable dialogue management algorithms. Enterprise high-performance chatbots with extensive domain knowledge require a mix of statistical, inductive, deep machine learning and learning from the web, syntactic, semantic and discourse NLP, ontology-based reasoning and a state machine to control a dialogue. This book will provide a comprehensive source

of algorithms and architectures for building chatbots for various domains based on the recent trends in computational linguistics and machine learning. The foci of this book are applications of discourse analysis in text relevant assessment, dialogue management and content generation, which help to overcome the limitations of platform-based and data driven-based approaches. Supplementary material and code is available at <https://github.com/bgalitsky/relevance-based-on-parse-trees> Choose the settings that make your digital photos better Can't wait to see what you and your digital camera can do? Packed with examples of what you can accomplish, this book gives you the inside scoop on camera features, setting up shots, downloading your photos, and a whole lot more! Open the book and find: Basic camera settings and digital photo file formats When to use your camera's flash Tips for composing good pictures How to transfer photos from your camera to your computer How automatic scene modes simplify photo taking

With today's advanced camera technology, achieving focus on a photographic subject seems like it should be a straightforward task, but many photographers know that it can be deceptively difficult, especially when shooting moving subjects or in challenging situations. Now, there is a complete guide available for Nikon shooters that will help them get tack-sharp photos every time.

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In *The Nikon Autofocus System, 2nd Edition*, photographer Mike Hagen, author of the bestselling *The Nikon Creative Lighting System*, takes his deep knowledge of Nikon technology and concentrates on its focus features. In this book, which covers all current Nikon DSLR models (including the D5 and D500), Hagen fully explains how Nikon autofocus works, including detailed discussions of all the autofocus modules, drive systems, and camera buttons and menus. He also devotes an entire chapter to explore how focus works with Nikon's lenses.

Armed with this general knowledge, Hagen then dives deep and offers camera setups, settings, and best practices for specific field techniques that address the photographic genres that are notoriously challenging for focus: action and sports (indoor and outdoor), wildlife (including birds in flight), and macro photography. He also covers genres such as portrait, landscape, underwater, low-light, and street photography. Hagen not only advises on the best ways to set up the camera and focus systems, he gives helpful tips and tricks throughout the book.

The Nikon Autofocus System also covers:

- Live view autofocus methods and settings
- Achieving great focus in video
- AF tracking

- AF shooting styles, such as back-button AF and shutter-release AF
- HDR, panoramas, and other techniques for shooting with a tripod
- An entire chapter on additional terms and techniques, such as hyperfocal distance, calibrating lenses, focus and flash photography, and more

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