
Fisheye Lens Designs And Their Relative Performance

Advances in Visual Computing
Design Principles for Photography
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Introduction to Lens Design
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The Lens
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Effective Surveillance for Homeland Security
Lens Design, Third Edition,
Lens Design

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BALDWIN ALEXANDER

Advances in Visual Computing BoD - Books on Demand

The very thing that makes wide-angle photography so compelling also makes it a challenge: While you're sure to capture a vast scene using a wide-angle lens, it can be difficult to direct the viewer's attention when so many elements are included in an image. For many photographers, the results of their wide-angle attempts are a disappointment and they just can't seem to achieve that "Wow" they are hoping for in their images.

Whether you're new to wide-angle lenses or you've been frustrated by them for a long time, expert photographer, teacher, and au-

thor Chris Marquardt is here to help. *Wide-Angle Photography* is packed with information—as well as beautiful and inspiring photography—that will help you take your wide-angle image making to the next level.

In a friendly, accessible manner Chris walks you through in-depth discussions of both the advantages and the pitfalls of wide-angle photography, the fundamentals you need to know, composition and design principles, and the specific genres in which wide-angle lenses can be used to create outstanding images—not only for landscape photography, but for portrait, street, architectural, and interior photography, as well. Throughout the book, Chris offers hands-on exercises that drive home the concepts being taught so you can learn by doing. Chris also dedicates two full

chapters to tilt-shift lenses for those who are interested in exploring and maximizing the fascinating capabilities these kinds of lenses offer.

Topics include:

1. Types of lenses and filters
2. Understanding depth of field
3. Angles of view, crop factors, and focal lengths
4. Handling distortion and aberrations
5. Composition, design, and context
6. Point of view and perspective
7. Wide-angle for various genres
8. Panoramas and stitching images
9. Tilt-shift lenses
10. Hands-on exercises
11. And much more...

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Design Principles for Photography CRC Press

Serves as a reference for those working in the field or a text for courses in lens design. Explains how to create a wide range of lens systems via lens optimization programs, describing techniques for fashioning single element lenses, two element achromats, and air speed triplets. Covers 31 types of

Advances in Visual Computing SPIE Press

Achieve the Best Camera Design: Up-to-Date Information on

MCMs Miniature camera modules (MCMs), such as webcams, have rapidly become ubiquitous in our day-to-day devices, from mobile phones to interactive TV systems. MCMs—or "smart" cameras—can zoom, adjust their frame rate automatically with illumination change, focus at different distances, compensate for hand shake, and transform captured images. With contributions from academics and field engineers, *Smart Mini-Cameras* discusses the structure, operation principles, applications, and future trends of miniature mobile cameras. It compares this technology with traditional digital still cameras and explains the specific requirements of MCM components (imposed by the size or type of application) in terms of optical design, image sensor, and functionalities. The book describes the implementation of several active functionalities, including liquid crystal auto focus (AF) and optical image stabilization (OIS). It also explores how new technologies, such as the curved detector and transforming optics, are stimulating novel trends, including a miniature panoramic lens on mobile phones. By providing you with an understanding of the components and performance tradeoffs of MCMs, this book will help you achieve the best camera design. It also answers frequently asked questions, such as the importance of the number of megapixels in a mobile phone camera and the value of AF and OIS features.

Applied Photographic Optics CRC Press

Optical System Design covers the basic knowledge of optics and the flow of light through an optical system. This book is organized into 16 chapters that deal with various components of an optical system, from light and images to spectroscopic apparatus. The book first discusses the simple components of an optical system,

including its light, lens, oblique beams, and photochemical aspects. It then deals with the system's projection, plane mirrors, prisms, magnifying instruments, and telescope. Other components considered are the surveying instruments, mirror imaging systems, photographic optics, and spectroscopic apparatus. This book is of value to undergraduate students with courses in geometrical optics and system design.

Lens Design Fundamentals CRC Press

This title takes you beyond the basics to a much more detailed knowledge of photography. The book leads you through everything from choosing lenses and equipment to film types, technical data, lighting, tone control, and much more.

Smartphones from an Applied Research Perspective SPIE-International Society for Optical Engineering

A large part of this book is devoted to a study of possible design procedures for various types of lens or mirror systems, with fully worked examples of each. The reader is urged to follow the logic of these examples and be sure that he understands what is happening, noticing particularly how each available degree of freedom is used to control one aberration. Not every type of lens has been considered, of course, but the design techniques illustrated here can readily be applied to the design of other more complex systems. It is assumed that the reader has access to a small computer to help with the ray tracing, otherwise he may find the computations so time-consuming that he is liable to lose track of what he is trying to accomplish.

Introduction to Lens Design Springer Science & Business Media

Presenting the thoroughly revised, fully illustrated edition of The

Nikon Compendium, updated by the technical editor of Nikon Owner magazine to include all the new Nikon cameras, lenses, and accessories. This is what Nikon enthusiasts have eagerly awaited: the most complete Nikon reference book ever. At almost double the length of the original, the guide describes virtually every Nikon camera ever produced, right up to the wide variety of popular digital models. It aids identification, offers user-friendly tips, explains what system fits with which camera, and discusses what limitations occur when equipment from one generation is married to items from another. Professional and amateur photographers, as well as enthusiasts, collectors, and retailers will want this on their bookshelves.

Langford's Advanced Photography CRC Press

This book constitutes the refereed proceedings of the 7th Pacific Rim Conference on Multimedia, PCM 2006, held in Hangzhou, China in November 2006. The 116 revised papers presented cover a wide range of topics, including all aspects of multimedia, both technical and artistic perspectives and both theoretical and practical issues.

The Complete Book of Photographic Lenses Academic Press

A concise introduction to lens design, including the fundamental theory, concepts, methods and tools used in the field. Covering all the essential concepts and providing suggestions for further reading at the end of each chapter, this book is an essential resource for graduate students working in optics and photonics.

Photographing Flowers Amphoto Books

Featuring over 700 references, equations, tables, and drawings, this highly lauded and best-selling reference emphasizes practical designs of over 30 lens systems, including single-element, two-

element achromats, air-spaced triplets, projection lenses, and sophisticated wide-angle and zoom lenses. It comes with software that supplies starting solutions for computer optimization programs lens prescriptions and several shorter programs to compute the refractive index of glasses from a variety of manufacturers, create lens drawings, perform zoom computations, do test glass fitting, and calculate third-order solutions for single lenses, achromats, and triplets.

Wide-Angle Photography Springer

This is the third edition of the well-known guide to close-range photogrammetry. It provides a thorough presentation of the methods, mathematics, systems and applications which comprise the subject of close-range photogrammetry, which uses accurate imaging techniques to analyse the three-dimensional shape of a wide range of manufactured and natural objects.

Optical System Design CRC Press

A large part of this book is devoted to a study of possible design procedures for various types of lens or mirror systems, with fully worked examples of each. The reader is urged to follow the logic of these examples and be sure that he understands what is happening, noticing particularly how each available degree of freedom is used to control one aberration. Not every type of lens has been considered, of course, but the design techniques illustrated here can readily be applied to the design of other more complex systems. It is assumed that the reader has access to a small computer to help with the ray tracing, otherwise he may find the computations so time-consuming that he is liable to lose track of what he is trying to accomplish.

Handbook of Optical and Laser Scanning Cambridge

University Press

The excellently received call for papers of the 13th Scandinavian Conference on Image Analysis, June 29-July 2 (SCIA 2003) resulted in the selected articles of this proceedings. Additionally the volume also contains invited contributions from - Ivar Austvoll, Stavanger University College (NO), - Lars B? a? ath, Halmstad University (SE), - Ewert Bengtsson, Uppsala University (SE), - Rasmus Larsen, Technical University of Denmark (DK), - Jussi Parkkinen, University of Joensuu (FI), - Pietro Perona, California Institute of Technology (US) which brings the total number of articles to 152. The theme of the papers are dominated by the categories - Feature extraction - Depth and surface - Medical image processing - Shape analysis - Segmentation and spatial grouping - Coding and representation - Motion analysis - Texture analysis - Color analysis - Indexing and categorization which also represent the topical groupings of this book. The particularly strong response to the feature extraction, depth and surface, and medical image processing themes makes us believe that these areas are c- rently expansive, partly because of the rich set of problems which remain to be addressed.

A History of the Photographic Lens Routledge

Which lens should I buy for my camera? It's such a simple question, but choosing the right lens or lenses is actually one of the most important photographic decisions you can make. Nothing affects the quality of a photo more than the lens. It's no longer just about the megapixels-it's the glass that makes all the difference! Many first-time buyers of DSLRs don't venture past the basic lens included in the box. While some are reluctant to

spend more money, others are confused by all the buzzwords or are overwhelmed by all the choices out there. It's really a shame, because interchangeable lenses give you amazing scope for quality photography. Take in vast sweeping scenes with a wide angle lens. Capture faraway birds with a telephoto lens. Examine the tiniest detail of a flower with a macro lens. Record the perfect portrait with a prime lens. Anything is possible when you choose the right lens for the job! This book isn't a simple catalogue of available lenses. New products are coming out all the time, and comparing specific lenses can be difficult. Instead, author N.K. Guy gives you all the information you need to make smart buying decisions. Optical technology is demystified, arcane terminology is decoded, and practical tips are provided. The Lens will help you build the perfect lens collection to suit your needs-now and in the future.

Camera Lenses Cambridge University Press

..".a new addition to...KODAK Workshop Series...covers a variety of topics including: how lenses are constructed, how to control image sharpness, which lens is best for photographing certain subjects, how to care for your lenses, and much more...fully illustrated with over 250 color and black-and-white photographs..."--"Photo Trade News."

Lens Design Springer

In *Choosing the Right Lens for Nature and Landscape Photography*, author and photographer Rob Sheppard walks you through selecting the lens you need for capturing beautiful shots, whether in your own garden or farther afield in the great outdoors. He defines the basic focal lengths you have to choose from, including wide-angle and telephoto lenses, and he

demonstrates how zoom features offer multiple focal lengths with one lens. He then shows you how to match focal length to the type of nature you are photographing and how to get that perfect close-up using special lenses. Finally, he discusses depth of field and perspective and what they mean for your images. Follow along with Rob and you will: Learn the right lens to use for the perfect shot, including wide-angle, telephoto, prime, single focal length, macro, and close-up lenses Use different zooms to get multiple focal lengths with one lens, such as wide-angle and wide-range zooms Understand the importance of depth of field, focal length, and perspective when shooting nature subjects and landscapes.

The New Nikon Compendium Rocky Nook, Inc.

Effective Surveillance for Homeland Security: Balancing Technology and Social Issues provides a comprehensive survey of state-of-the-art methods and tools for the surveillance and protection of citizens and critical infrastructures against natural and deliberate threats. Focusing on current technological challenges involving multi-disciplinary problem analysis and systems engineering approaches, it provides an overview of the most relevant aspects of surveillance systems in the framework of homeland security. Addressing both advanced surveillance technologies and the related socio-ethical issues, the book consists of 21 chapters written by international experts from the various sectors of homeland security. Part I, *Surveillance and Society*, focuses on the societal dimension of surveillance—stressing the importance of societal acceptability as a precondition to any surveillance system. Part II, *Physical and Cyber Surveillance*, presents advanced technologies for

surveillance. It considers developing technologies that are part of a framework whose aim is to move from a simple collection and storage of information toward proactive systems that are able to fuse several information sources to detect relevant events in their early incipient phase. Part III, Technologies for Homeland Security, considers relevant applications of surveillance systems in the framework of homeland security. It presents real-world case studies of how innovative technologies can be used to effectively improve the security of sensitive areas without violating the rights of the people involved. Examining cutting-edge research topics, the book provides you with a comprehensive understanding of the technological, legislative, organizational, and management issues related to surveillance. With a specific focus on privacy, it presents innovative solutions to many of the issues that remain in the quest to balance security with the preservation of privacy that society demands.

Advances in Multimedia Information Processing - PCM 2006
Academic Press

This comprehensive and self-contained text for researchers and professionals presents a detailed account of optical imaging from the viewpoint of both ray and wave optics.

Rough Sets and Current Trends in Computing CRC Press

BOOK FEATURES - 5-Point Perspective Sphere Grid with vanishing points is a 8.5"x8.55" notebook, 100 double-sided white pages with light blue lines. USAGE - Enables Engineers, Artists, Illustrators, Students and Graphic Designers to draw 3D geometric curved designs. 5-Point Perspective Grid will give your

drawings impressive depth with its exaggerated fisheye lens effect.

Image Analysis and Processing. ICIAP 2022 Workshops CRC Press

The two-volume set LNCS 13373 and 13374 constitutes the papers of several workshops which were held in conjunction with the 21st International Conference on Image Analysis and Processing, ICIAP 2022, held in Lecce, Italy, in May 2022. The 96 revised full papers presented in the proceedings set were carefully reviewed and selected from 157 submissions. ICIAP 2022 presents the following Sixteen workshops: Volume I: GoodBrother workshop on visual intelligence for active and assisted livingParts can worth like the Whole - PART 2022Workshop on Fine Art Pattern Extraction and Recognition - FAPERWorkshop on Intelligent Systems in Human and Artificial Perception - ISHAPE 2022Artificial Intelligence and Radiomics in Computer-Aided Diagnosis - AIRCADDeep-Learning and High Performance Computing to Boost Biomedical Applications - DeepHealth Volume II: Human Behaviour Analysis for Smart City Environment Safety - HBAXSCESBinary is the new Black (and White): Recent Advances on Binary Image ProcessingArtificial Intelligence for preterm infants' healthCare - AI-careTowards a Complete Analysis of People: From Face and Body to Clothes - T-CAPArtificial Intelligence for Digital Humanities - AI4DHMedical Transformers - MEDXFLearning in Precision Livestock Farming - LPLFWorkshop on Small-Drone Surveillance, Detection and Counteraction Techniques - WOSDETCMedical Imaging Analysis For Covid-19 - MIACOVID 2022Novel Benchmarks and Approaches for Real-World Continual Learning - CL4REAL

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