



Lens Elements of 16mm Fisheye

Fisheye Lens Designs And Their Relative Performance

JA Banks



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Lens Design Milton Laikin, 2018-10-03 There is no shortage of lens optimization software on the market to deal with today's complex optical systems for all sorts of custom and standardized applications. But all of these software packages share one critical flaw: you still have to design a starting solution. Continuing the bestselling tradition of the author's previous books, *Lens Design* Fourth Edition is still the most complete and reliable guide for detailed design information and procedures for a wide range of optical systems. Milton Laikin draws on his varied and extensive experience ranging from innovative cinematographic and special effects optical systems to infrared and underwater lens systems to cover a vast range of special purpose optical systems and their detailed design and analysis. This edition has been updated to replace obsolete glass types and now includes several new designs and sections on stabilized systems, the human eye, spectrographic systems, and diffractive systems. A new CD-ROM accompanies this edition, offering extensive lens prescription data and executable ZEMAX files corresponding to figures in the text. Filled with sage advice and completely illustrated, *Lens Design* Fourth Edition supplies hands-on guidance for the initial design and final optimization for a plethora of commercial, consumer, and specialized optical systems. [Smartphones from an Applied Research Perspective](#) Nawaz Mohamudally, 2017-11-02

[Smartphones from an Applied Research Perspective](#) highlights latest advancements of research undertaken in multidisciplinary fields where the smartphone plays a central role. Smartphone is synonymous to innovation in today's society. Very few visionaries predicted its social, cultural, technological, and economic impacts, although the usage of smartphone is almost pervasive and transcendental. This book is meant for researchers and postgraduate students looking forward for hot topics for their final year projects, doctoral, or even postdoctoral studies. Practitioners too will find food for thought and will surely be amazed by the broadness of the topics presented. [Effective Surveillance for Homeland Security](#) Francesco Flammini, Roberto Setola, Giorgio Franceschetti, 2013-06-13 *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 Image Analysis Josef Bigun,Thomas

Gustavsson,2003-08-02 This book constitutes the refereed proceedings of the 13th Scandinavian Conference on Image Analysis SCIA 2003 held in Halmstad Sweden in June July 2003 The 148 revised full papers presented together with 6 invited contributions were carefully reviewed and selected for presentation The papers are organized in topical sections on feature extraction depth and surface shape analysis coding and representation motion analysis medical image processing color analysis texture analysis indexing and categorization and segmentation and spatial grouping **Rough Sets and Current**

Trends in Computing Salavatore Greco,Yukata Hata,Shoji Hirano,Masahiro Inuiguchi,Sadaaki Miyamoto,Hung Son Nguyen,Roman Slowiński,2006-11-03 This book constitutes the refereed proceedings of the 5th International Conference on Rough Sets and Current Trends in Computing RSCTC 2006 held in Kobe Japan in November 2006 The 91 revised full papers presented together with five invited papers and two commemorative papers were carefully reviewed and selected from 332 submissions *Advances in Visual Computing* George Bebis,2006 *Advances in Visual Computing* Richard Boyle,Bahram

Parvin,Darko Koracin,Ara Nefian,Gopi Meenakshisundaram,Valerio Pascucci,Jiri Zara,Jose Molineros,Holger Theisel,Tom Malzbender,2006-11-02 The two volume set LNCS 4291 and LNCS 4292 constitutes the refereed proceedings of the Second International Symposium on Visual Computing ISVC 2006 held in Lake Tahoe NV USA in November 2006 The 65 revised full papers and 56 poster papers presented together with 57 papers of ten special tracks were carefully reviewed and selected from more than 280 submissions The papers cover the four main areas of visual computing **Vision Systems** Goro

Obinata,Ashish Dutta,2007-06-01 Computer Vision is the most important key in developing autonomous navigation systems for interaction with the environment It also leads us to marvel at the functioning of our own vision system In this book we have collected the latest applications of vision research from around the world It contains both the conventional research areas like mobile robot navigation and map building and more recent applications such as micro vision etc The first seven chapters contain the newer applications of vision like micro vision grasping using vision behavior based perception inspection of railways and humanitarian demining The later chapters deal with applications of vision in mobile robot navigation camera calibration object detection in vision search map building etc **Advances in Multimedia Information**

Processing - PCM 2006 Yueting Zhuang,2006-10-24 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

Image Analysis and Processing. ICIAP 2022 Workshops Pier Luigi Mazzeo, Emanuele Frontoni, Stan Sclaroff, Cosimo Distanto, 2022-08-06 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 living Parts can worth like the Whole PART 2022 Workshop on Fine Art Pattern Extraction and Recognition FAPER Workshop on Intelligent Systems in Human and Artificial Perception ISHAPE 2022 Artificial Intelligence and Radiomics in Computer Aided Diagnosis AIRCAD Deep Learning and High Performance Computing to Boost Biomedical Applications DeepHealth Volume II Human Behaviour Analysis for Smart City Environment Safety HBAX SCES Binary is the new Black and White Recent Advances on Binary Image Processing Artificial Intelligence for preterm infants healthCare AI care Towards a Complete Analysis of People From Face and Body to Clothes T CAP Artificial Intelligence for Digital Humanities AI4DH Medical Transformers MEDXFLearning in Precision Livestock Farming LPLF Workshop on Small Drone Surveillance Detection and Counteraction Techniques WOSDETC Medical Imaging Analysis For Covid 19 MIACOVID 2022 Novel Benchmarks and Approaches for Real World Continual Learning CL4REAL

Smart Mini-Cameras Tigran V. Galstian, 2013-09-24 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

Measuring the Impact of the Built Environment on Health, Wellbeing, and Performance Altaf Engineer, Aletheia Ida, Wooyoung Jung, Esther M. Sternberg, 2024-02-22 This book reveals how subjective and objective data gathered by innovative methods of measurement give us the ability to quantify stress health performance and wellbeing

outcomes in different built environments Design interventions informed by these measures along with innovative integrated building materials can shape the character of built environments for better health productivity and performance These measures can help employers and managers calculate the return on investment ROI of various design interventions Areas of inquiry in health and the built environment are discussed in three parts Part 1 Fundamentals Human Environment and Material Measures for Health and Wellbeing Part 2 Methods Measurement Techniques Tools and Methods for Health and Wellbeing and Part 3 Applications Case Studies and Future Directions The rapid pace of technical innovation and entrepreneurship by interdisciplinary research teams in health and the built environment has created a need for more publications such as this book which discuss latest tools and methods of measuring the effects of the built environment on human physiology and psychology Emerging tools and techniques are introduced for this field of built environment design including virtual reality immersive environments and fisheye lens photograph simulations for human wellbeing impact measures integral to the design process The potentials and limitations of bio responsive material systems and integrated sensing devices with wearable technologies linked to the Internet of Things are discussed in relation to human wellbeing performance improvements The book provides both the foundational knowledge and fundamentals for characterizing human health and wellbeing in the built environment as well as emerging trends and design research methods for innovations in this field It will be of interest to researchers educators and students of architecture interior design and integrative medicine as well as professionals working in health and the built environment

Handbook of Optical Systems, Volume 4 Herbert Gross, Fritz Blechinger, Bertram Aichtner, 2008-03-17 The state of the art full colored handbook gives a comprehensive introduction to the principles and the practice of calculation layout and understanding of optical systems and lens design Written by reputed industrial experts in the field this text introduces the user to the basic properties of optical systems aberration theory classification and characterization of systems advanced simulation models measuring of system quality and manufacturing issues In this Volume Volume 4 presents a survey of optical systems based on the principles of image formation optical system setup and quality control which are covered by the first three volumes Starting with the human eye the chapters discuss all systems from telescopes and binoculars to projection spectroscopic and illumination systems All these systems are characterized and described using coherent schemes and criteria to provide readers with a thorough background for their own developments Other Volumes Volume 1 Fundamentals of Technical Optics Volume 2 Physical Image Formation Volume 3 Aberration Theory and Correction of Optical Systems Volume 5 Advanced Physical Optics

Current Developments in Lens Design and Optical Engineering VIII Pantazis Mouroulis, Warren J. Smith, R. Barry Johnson, 2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Nuclear Science Abstracts ,1971 **Close-Range Photogrammetry and 3D Imaging** Thomas Luhmann, Stuart Robson, Stephen Kyle, Jan Boehm, 2023-10-04 The fourth edition of this well known guide to close range photogrammetry provides a thorough presentation of the methods mathematics systems and applications which comprise the subject of close range photogrammetry The authors present accurate imaging techniques to analyse the three dimensional shape of a wide range of manufactured and natural objects 1st edition awarded the Karl Kraus Medal for Best International Textbook Covers all current and established technology features and recent technology developments of significance New topics include aspherical lenses hyperspectral camera and colour calibration Metamaterials Tie Jun Cui, Wen Xuan Tang, Xin Mi Yang, Zhong Lei Mei, Wei Xiang Jiang, 2017-12-19 Metamaterials Beyond Crystals Noncrystals and Quasicrystals is a comprehensive and updated research monograph that focuses on recent advances in metamaterials based on the effective medium theory in microwave frequencies Most of these procedures were conducted in the State Key Laboratory of Millimeter Waves Southeast University China The book conveys the essential concept of metamaterials from the microcosmic structure to the macroscopic electromagnetic properties and helps readers quickly obtain needed skills in creating new devices at microwave frequencies using metamaterials The authors present the latest progress on metamaterials and transformation optics and provide abundant examples of metamaterial based devices accompanied with detailed procedures to simulate fabricate and measure them Comprised of ten chapters the book comprehensively covers both the fundamentals and the applications of metamaterials Along with an introduction to the subject the first three chapters discuss effective medium theory and artificial particles The next three chapters cover homogeneous metamaterials super crystals random metamaterials super noncrystals and inhomogeneous metamaterials super quasicrystals The final four chapters examine gradient index inhomogeneous metamaterials nearly isotropic inhomogeneous metamaterials and anisotropic inhomogeneous metamaterials after which the authors provide their conclusions and closing remarks The book is completely self contained making it easy to follow *The Focal Encyclopedia of Photography* Michael R. Peres, 2013-05-29 This volume is a complete revision of the 1996 third edition shares the ever changing breadth of photographic topics with a special emphasis on digital imaging and contemporary issues Produced by an international team of photographic and imaging experts with collaboration from the George Eastman House the world's oldest photography museum this fourth edition contains essays and photographic reproductions sharing information where photography and imaging serve a primary role ranging from the atomic to the cosmic **Free-space Laser Communications** ,2005 Design and Engineering of Optical Systems Joseph J. M. Braat, 1996

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