

Lens Design

Michael J. Kidger

Lens Design:

Lens Design Fundamentals Rudolf Kingslake, 2012-12-02 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 Modern Lens Design Warren J. Smith, 2004-11-12 Unlike the first edition which was more a collection of lens designs for use in larger projects the 2nd edition of Modern Lens Design is an optical how to Delving deep into the mechanics of lens design optics legend Warren I Smith reveals time tested methods for designing top quality lenses He deals with lens design software primarily OSLO by far the current market leaders and provides 7 comprehensive worked examples all new to this edition With this book in hand there s no lens an optical engineer can t design Lens Design Fundamentals Rudolf Kingslake, R. Barry Johnson, 2009-11-20 Thoroughly revised and expanded to reflect the substantial changes in the field since its publication in 1978 Strong emphasis on how to effectively use software design packages indispensable to today s lens designer Many new lens design problems and examples ranging from simple lenses to complex zoom lenses and mirror systems give insight for both the newcomer and specialist in the field Rudolf Kingslake is regarded as the American father of lens design his book not revised since its publication in 1978 is viewed as a classic in the field Naturally the area has developed considerably since the book was published the most obvious changes being the availability of powerful lens design software packages theoretical advances and new surface fabrication technologies This book provides the skills and knowledge to move into the exciting world of contemporary lens design and develop practical lenses needed for the great variety of 21st century applications Continuing to focus on fundamental methods and procedures of lens design this revision by R Barry Johnson of a classic modernizes symbology and nomenclature improves conceptual clarity broadens the study of aberrations enhances discussion of multi mirror systems adds tilted and decentered systems with eccentric pupils explores use of aberrations in the optimization process enlarges field flattener concepts expands discussion of image analysis includes many new exemplary examples to illustrate concepts and much more Optical engineers working in lens design will find this book an invaluable guide to lens design in traditional and emerging areas of application it is also suited to advanced undergraduate or graduate course in lens design principles and as a self learning tutorial and reference for the practitioner Rudolf Kingslake 1903 2003 was a founding faculty member of the Institute of Optics at The University of Rochester 1929 and remained teaching until 1983 Concurrently in 1937 he became head of the lens design department at Eastman Kodak until his retirement in 1969 Dr

Kingslake published numerous papers books and was awarded many patents He was a Fellow of SPIE and OSA and an OSA President 1947 48 He was awarded the Progress Medal from SMPTE 1978 the Frederic Ives Medal 1973 and the Gold Medal of SPIE 1980 R Barry Johnson has been involved for over 40 years in lens design optical systems design and electro optical systems engineering He has been a faculty member at three academic institutions engaged in optics education and research co founder of the Center for Applied Optics at the University of Alabama in Huntsville employed by a number of companies and provided consulting services Dr Johnson is an SPIE Fellow and Life Member OSA Fellow and an SPIE President 1987 He published numerous papers and has been awarded many patents Dr Johnson was founder and Chairman of the SPIE Lens Design Working Group 1988 2002 is an active Program Committee member of the International Optical Design Conference and perennial co chair of the annual SPIE Current Developments in Lens Design and Optical Engineering Conference Thoroughly revised and expanded to reflect the substantial changes in the field since its publication in 1978 Strong emphasis on how to effectively use software design packages indispensable to today s lens designer Many new lens design problems and examples ranging from simple lenses to complex zoom lenses and mirror systems give insight for both the newcomer and specialist in the field Introduction to Lens Design José Sasián, 2019-09-26 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 **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 **Lens Design** Haiyin Sun, 2016-12-19 A Practical Guide to Lens Design focuses on the very detailed practical process of lens design Every step from setup specifications to finalizing the design for production is discussed in a straight forward tangible way Design examples of several widely used modern lenses are provided Optics basics are introduced and basic functions of Zemax are described Zemax will be used throughout the

book Lens Design, Third Edition, Milton Laikin, 2001-03-29 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 Contact Lens Optics and Lens Design W. A. Douthwaite, 2006-01-01 This title is directed primarily towards health care professionals outside of the United States The 3rd edition of Contact Lens Optics Lens Design provides a straightforward introduction and offers solutions to the vast majority of contact lens optics problems likely to be encountered in practice This edition has been thoroughly updated and contains integral coverage of soft lenses information on the latest corneal measuring techniques and expanded coverage of astigmatism and corneal toricity It includes a new chapter on presbyopia and separate treatment of orthokeratology Also included on the CD ROM is a set of invaluable computer programs which allow the users to bypass tedious calculations in arriving at best fits Offers solutions to the vast majority of contact lens optics problems Includes a companion CD ROM with calculators to resolve fitting problems Revised expanded and updated computer programs on CD ROM New two color design throughout Color plate section Integral coverage of soft and RGP lenses In depth information on mean thickness and harmonic mean thickness Discussion of the latest corneal measuring techniques Wavefront aberrations Soft toric lenses discussed in detail New chapter on presbyopia correction and soft lens bifocal design Coverage of orthokeratology and other cutting edge techniques **A Course in Lens Design** Chris Velzel, 2014-03-28 A Course in Lens Design is an instruction in the design of image forming optical systems It teaches how a satisfactory design can be obtained in a straightforward way Theory is limited to a minimum and used to support the practical design work The book introduces geometrical optics optical instruments and aberrations It gives a description of the process of lens design and of the strategies used in this process Half of its content is devoted to the design of sixteen types of lenses described in detail from beginning to end This book is different from most other books on lens design because it stresses the importance of the initial phases of the design process paraxial lay out and thin lens pre design The argument for this change of accent is that in these phases much information can be obtained about the properties of the lens to be designed This information can be used in later phases of the design This makes A Course in Lens Design a useful self study book and a suitable basis for an introductory course in lens design The mathematics mainly used is college algebra in a few sections calculus is applied The book could be used by students of engineering and technical physics and by engineers and scientists Contact Lens Design Tables Anthony Musset, Janet Stone, 2013-10-22 Contact Lens Design Tables presents tables for the determination of surface radii of curvature of hard contact lenses to give a required axial edge lift The book

also offers method of use of these tables to achieve the best approach to their use in lens design These tables will be helpful to contact lens practitioners and manufacturers Nonimaging Fresnel Lenses Ralf Leutz, Akio Suzuki, 2001-07-31 A detailed and comprehensive account of the engineering of the world's first nonimaging Fresnel lens solar concentrator The book closes a gap in solar concentrator design and describes nonimaging refractive optics and its numerical mathematics The book shows the reader how to find his or her own optical solution using the rules and methodologies covering the design and the assessment of the nonimaging lens 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 Optical Design for Visual Systems Bruce H. Walker, 2000 This tutorial explains the human eye its function and performance limits from the perspective of an experienced optical engineer and lens designer It is concise and readable with examples and data and is intended for students practicing engineers and technology users Opto-Mechanical Systems Design, Second Edition, Paul Yoder, Daniel Vukobratovich, Roger A. Paquin, 1992-10-29 Rewritten and updated this text provides information on opto mechanical systems design guidelines and their day to day applications in real environments It emphasizes proven techniques for accomplishing design tasks and outlines techniques for mounting various optical elements and groupings Intermediate Optical Design Michael J. Kidger, 2004 This second volume based on Michael Kidger's popular short courses and workshops is aimed at readers already familiar with the concepts presented in Fundamental Optical Design SPIE Press Vol PM92 It begins with a sweeping discussion of optimization that is written with the user in mind and continues with a unique look at the role of higher order aberrations The book s key feature is its astounding presentation of a wide range of practical design examples covering such problems as secondary spectrum correction high numerical aperture designs lasers zoom lenses tilted or decentered optical systems and price and performance requirements Each scenario is accompanied by an in depth discussion that goes well beyond the ray aberration plot including useful insights into an optical designer s thought processes

Microwave Antenna Theory and Design Samuel Silver, 1984 This book covers the basic principles and fundamental microwave antenna types and techniques **Diffractive Optics** Donald C. O'Shea, 2004 This book provides the reader with the broad range of materials that were discussed in a series of short courses presented at Georgia Tech on the design fabrication and testing of diffractive optical elements DOEs Although there are not long derivations or detailed methods for specific engineering calculations the reader should be familiar and comfortable with basic computational techniques This text is not a cookbook for producing DOEs but it should provide readers with sufficient information to assess whether this technology would benefit their work and to understand the requirements for using the concepts and techniques presented by Manual of Contact Lens Prescribing and Fitting Milton M. Hom, Adrian S. Bruce, 2006 Part I Basic Concepts 1 Anatomy and Physiology 2 Anterior Segment Disease and Contact Lenses 3 Examination and Instrumentation 4 Patient Selection new 5 CL optics new Part II Gas Permeable lenses 6 Gas Permeable Lens Design and Fitting 7 Gas Permeable Lens Fitting and Eyelid Geometry 8 Gas Permeable Lens Fluorescein Patterns 9 Gas Permeable Lens Materials 10 Modification and Verification 11 Gas Permeable Lenses for Astigmatism 12 Gas Permeable Lens Care and Patient Education 13 Gas Permeable Cases Part III Soft Lenses 14 Soft Lens Design Fitting and Physiologic Response 15 Soft Lens Materials 16 Soft Contact lenses and the Tear film 17 Soft Contact Lenses for Astigmatism 18 Soft Contact Lens Care and Patient Education Part IV Extended wear 19 Gas Permeable Extended Wear and Complications 20 Soft Extended Wear and Complications Part V Special Topics 21 Dry Eyes and Contact Lenses 22 Monovision and Bifocals 23 Translating Bifocals 24 Keratoconus 25 Post Penetrating Keratoplasty 26 Aphakia 27 Refractive Surgery and Contact Lenses 28 Pediatric Contact Lenses 29 Orthokeratology 30 Colored lenses 31 Scleral lenses Appendix A Extended Keratometer Range with 1 25 D and 1 00 D Lenses Appendix B Vertex Conversion Table of Plus and Minus Powers Appendix C Keratometer Conversion Diopter to Millimeters

Contact Lenses Ken Daniels,1999 The Basic Bookshelf for Eyecare Professionals is a series that provides fundamental and advanced material with a clinical approach to clinicians and students A special effort was made to include information needed for the certification exams in ophthalmic and optometric assisting as well as for surgical assistants opticians plus low vision and contact lens examiners Perfect for the optometric and ophthalmic tech this well illustrated text includes detailed how to s that will make contact lens fitting and patient education easy The author starts with ocular anatomy and how it is affected by contact lens wear Other topics include lens design and materials patient selection and examination procedures and fitting of both soft and rigid lenses including astigmatic designs Information on patient instruction care of products lens verification modification complications and special fitting situations are also covered Lens Design Fundamentals Rudolf Kingslake,1978-04-28 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

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