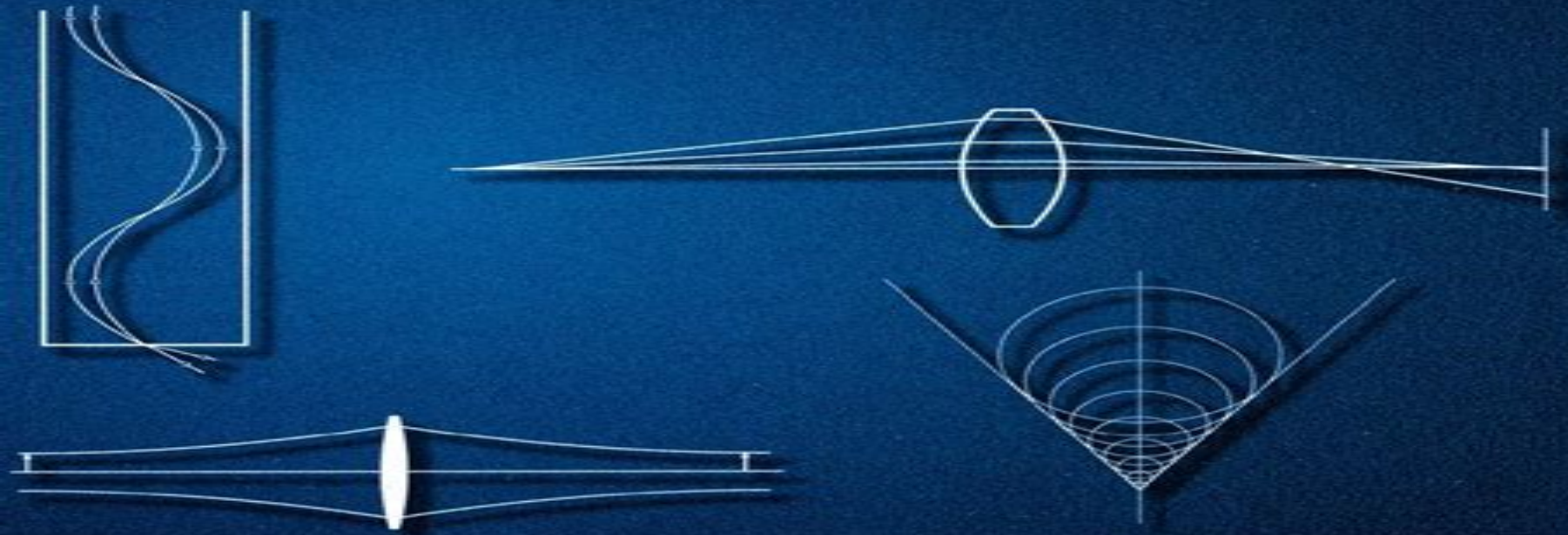


Geometrical Optics and Optical Design

Pantazis Mouroulis
John Macdonald



Geometrical Optics And Optical Design

Milton Katz



Geometrical Optics And Optical Design:

Geometrical Optics and Optical Design Pantazis Mouroulis, John Macdonald, 1997 Geometrical Optics and Optical Design is an up to date introductory treatment of geometrical optics which is intended to lead students toward the modern practices of computer aided optical design The principles of Gaussian optics and first order layout and design are emphasized based on the tracing of two paraxial rays and the associated optical invariant The radiometry of lens systems is seen to rest on the same concepts Third order aberration theory is developed in detail Complete examples of third order design are provided together with software tools that allow students to follow the examples in detail or to develop other examples independently Several problems at the end of each chapter allow students to practice and extend the concepts taught *Fundamental Optical Design* Michael J. Kidger, 2002 This book provides all the essential and best elements of Kidger's many courses taught worldwide on lens and optical design It is written in a direct style that is compact logical and to the point a tutorial in the best sense of the word I read my copy late last year and read it straight through cover to cover In fact I read it no less than three times Its elegant expositions valuable insights and up front espousal of pre design theory make it an outstanding work It's in the same league with Conrady and Kingslake Warren Smith Handbook of Optical Design Daniel Malacara-Hernández, Zacarías Malacara-Hernández, 2003-09-21 Infused with more than 500 tables and figures this reference clearly illustrates the intricacies of optical system design and evaluation and considers key aspects of component selection optimization and integration for the development of effective optical apparatus The book provides a much needed update on the vanguard in the field with vivid Geometrical Optics and Optical Design Fletcher Donaldson Cruickshank, G. A. Hills, 1960 **Handbook of Optical Design** Daniel Malacara-Hernández, Zacarías Malacara-Hernández, 2017-12-19 Handbook of Optical Design Third Edition covers the fundamental principles of geometric optics and their application to lens design in one volume It incorporates classic aspects of lens design along with important modern methods tools and instruments including contemporary astronomical telescopes Gaussian beams and computer lens design Written by respected researchers the book has been extensively classroom tested and developed in their lens design courses This well illustrated handbook clearly and concisely explains the intricacies of optical system design and evaluation It also discusses component selection optimization and integration for the development of effective optical apparatus The authors analyze the performance of a wide range of optical materials components and systems from simple magnifiers to complex lenses used in photography ophthalmology telescopes microscopes and projection systems Throughout the book includes a wealth of design examples illustrations and equations most of which are derived from basic principles Appendices supply additional background information What's New in This Edition Improved figures including 32 now in color Updates throughout reflecting advances in the field New material on Buchdahl high order aberrations Expanded and improved coverage of the calculation of wavefront aberrations based on optical path An updated list of optical materials in the appendix A clearer more

detailed description of primary aberrations References to important new publications Optical system design examples updated to include newly available glasses 25 new design examples This comprehensive book combines basic theory and practical details for the design of optical systems It is an invaluable reference for optical students as well as scientists and engineers working with optical instrumentation

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

New Computation Methods for Geometrical Optics Psang Dain Lin, 2013-10-01 This book employs homogeneous coordinate notation to compute the first and second order derivative matrices of various optical quantities It will be one of the important mathematical tools for automatic optical design The traditional geometrical optics is based on raytracing only It is very difficult if possible to compute the first and second order derivatives of a ray and optical path length with respect to system variables since they are recursive functions Consequently current commercial software packages use a finite difference approximation methodology to estimate these derivatives for use in optical design and analysis Furthermore previous publications of geometrical optics use vector notation which is comparatively awkward for computations for non axially symmetrical systems

Aberrations of Optical Systems W.T Welford, 2017-11-22 Although the subject of optical design as a branch of applied physics is over one hundred years old the use of aberration theory has changed considerably Aberrations of Optical Systems covers elementary optics and aberration theory of various optical systems including the use of nonaxially symmetric systems and diffractive optical elements in complex designs such as head up displays and the increasing use of scanning systems with laser illumination The book provides the complete range of mathematical tools formulae and derivations needed for understanding the process of optical design and for planning optical design programs While the treatment is mainly based on geometrical optics some excursions into physical optics are made particularly in connection with the problems of optical tolerances

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Handbook of Lens Design Daniel Malacara, Zacarias Malacara, 1994-07-07 This practical reference text provides comprehensive coverage of geometrical optics

from basic principles to the most advanced topics and presents its applications in the design optimization and evaluation of lenses and optical instruments Introduces a new approach to the derivation of primary aberration coefficients **New Computation Methods for Geometrical Optics** P.D. Lin, 2013-11-27 This book employs homogeneous coordinate notation to compute the first and second order derivative matrices of various optical quantities It will be one of the important mathematical tools for automatic optical design The traditional geometrical optics is based on raytracing only It is very difficult if possible to compute the first and second order derivatives of a ray and optical path length with respect to system variables since they are recursive functions Consequently current commercial software packages use a finite difference approximation methodology to estimate these derivatives for use in optical design and analysis Furthermore previous publications of geometrical optics use vector notation which is comparatively awkward for computations for non axially symmetrical systems Geometric Optics Antonio Romano, Roberto Cavaliere, 2016-09-26 This book unique in the literature provides readers with the mathematical background needed to design many of the optical combinations that are used in astronomical telescopes and cameras The results presented in the work were obtained by using a different approach to third order aberration theory as well as the extensive use of the software package Mathematica Replete with workout examples and exercises Geometric Optics is an excellent reference for advanced graduate students researchers and practitioners in applied mathematics engineering astronomy and astronomical optics The work may be used as a supplementary textbook for graduate level courses in astronomical optics optical design optical engineering programming with Mathematica or geometric optics Introduction to Geometrical Optics Milton Katz, 2002 This book is the culmination of twenty five years of teaching Geometrical Optics The volume is organised such that the single spherical refracting surface is the basic optical element Spherical mirrors are treated as special cases of refraction with the same applicable equations Thin lens equations follow as combinations of spherical refracting surfaces while the cardinal points of the thick lens make it equivalent to a thin lens Ultimately one set of vergence equations are applicable to all these elements The chapters are devoted to in depth treatments of stops pupils and ports magnifiers microscopes telescopes and camera lenses ophthalmic instruments resolving power and MTF trigonometric ray tracing and chromatic and monochromatic aberrations There are over 100 worked examples 400 homework problems and 400 illustrations First published in 1994 by Penumbra Publishing Co *Optical Design* Max J. Riedl, 2009-01-01 This text is written for engineers and scientists who have some experience in the field of optics and want to know more about the details and derivations of equations used in optical design Organized by topic the book begins with the fundamental law of geometrical optics Snell's law of refraction and states the paraxial ray trace equations then moves on to thin lenses and increasingly more sophisticated components and multi element systems Each topic is covered in depth and provides comprehensive information on performance and limitations While the text is based on general optical laws special emphasis has been placed on the two major infrared regions the mid wave MWIR and the long

wave LWIR This is particularly important with regard to diffractive hybrids which have found their place in these long wavelength areas for the correction of chromatic aberrations and athermalization Comments relating to single point diamond turning have also been included because this process is predominantly used to produce optical elements for the infrared regions

Elements of Modern Optical Design Donald C. O'Shea, 1985-08-14 A textbook for elementary optical design that treats lasers modulators and scanners as part of the design process Moves from the simplest concepts in optics to a basic understanding of ray tracing in optical systems the components of those systems and the process by which a design is produced Features numerous problems examples and figures

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The Art and Science of Optical Design Robert R. Shannon, 1997-06-13 The Art and Science of Optical Design is a comprehensive introduction to lens design covering the fundamental physical principles and key engineering issues Several practical examples of modern computer aided lens design are worked out in detail from start to finish The basic theory and results of optics are presented early on in the book along with a discussion of optical materials Aberrations and their correction and image analysis are then covered in great detail Subsequent chapters deal with design optimisation and tolerance analysis Several design examples are then given beginning with basic lens design forms and progressing to advanced systems such as gradient index and diffractive optical components In covering all aspects of optical design including the use of modern lens design software this book will be invaluable to students of optical engineering as well as to anyone engaged in optical design at any stage

A Practical Guide to Experimental Geometrical Optics Yuriy A. Garbovskiy, Anatoliy V. Glushchenko, 2017-12-28 A concise yet deep introduction to experimental geometrical optics this book begins with fundamental concepts and then develops the practical skills and research techniques routinely used in modern laboratories Suitable for students researchers and optical engineers this accessible text teaches readers how to build their own optical laboratory and to design and perform optical experiments It uses a hands on approach which fills a gap between theory based textbooks and laboratory manuals allowing

the reader to develop their practical skills in this interdisciplinary field and also explores the ways in which this knowledge can be applied to the design and production of commercial optical devices Including supplementary online resources to help readers track and evaluate their experimental results this text is the ideal companion for anyone with a practical interest in experimental geometrical optics

Modern Geometrical Optics Richard Dittion, 1997-11-03 From basic terms and concepts to advanced optimization techniques a complete practical introduction to modern geometrical optics Most books on geometrical optics present only matrix methods Modern Geometrical Optics although it covers matrix methods emphasizes y nu ray tracing methods which are used most commonly by optical engineers and are easier to adapt to third order optics and y diagrams Moving by logical degrees from fundamental principles to advanced optical analysis and design methods this book bridges the gap between the optical theory taught in introductory physics texts and advanced books on lens design Providing the background material needed to understand advanced material it covers important topics such as field of view stops pupils and windows exact ray tracing image quality and optimization of the image Important features of Modern Geometrical Optics include Examples of all important techniques presented Extensive problem sets in each chapter Optical analysis and design software Chapters covering y diagrams optimization and lens design This book is both a primer for professionals called upon to design optical systems and an ideal text for courses in modern geometrical optics Companion Software Special lens design and analysis software capable of solving all problems presented in the book is available via Wiley s FTP site This software also serves as an introduction to the use of commercial lens design software Appendix C is a user s manual for the software

Fundamentals and Basic Optical Instruments Daniel Malacara Hernández, 2017-11-22 Fundamentals and Basic Optical Instruments includes thirteen chapters providing an introductory guide to the basics of optical engineering instrumentation and design Topics include basic geometric optics basic wave optics and basic photon and quantum optics Paraxial ray tracing aberrations and optical design and prisms and refractive optical components are included Polarization and polarizing optical devices are covered as well as optical instruments such as telescopes microscopes and spectrometers

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