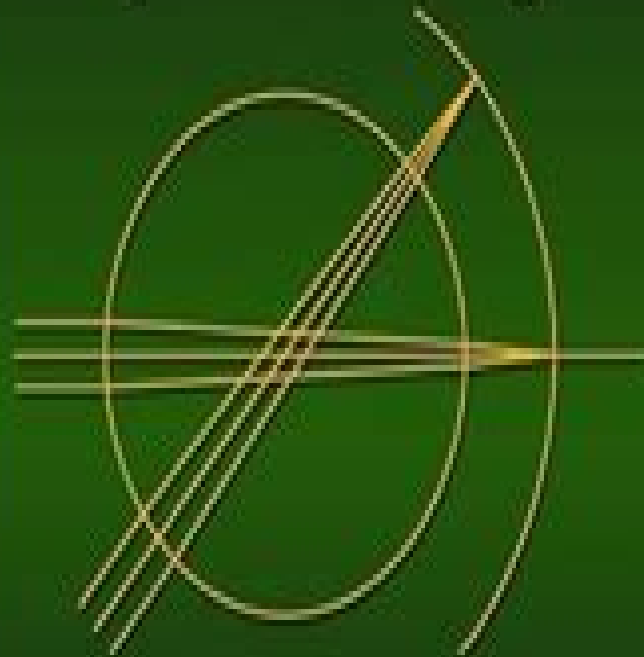


Fundamental Optical Design



Michael J. Kidger

Fundamental Optical Design

Srichand Hinduja, Kuang-Chao Fan



Fundamental Optical Design:

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 **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 **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 **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 **Optical Design Fundamentals for Infrared Systems**

Max J. Riedl,2001 The practical popular 1995 tutorial has been thoroughly revised and updated reflecting developments in technology and applications during the past decade New chapters address wave aberrations thermal effects design examples and diamond turning **Fundamentals Of Practical Aberration**

Theory: Fundamental Knowledge And Technics For Optical Designers Yoshiya Matsui,Kyoji Nariai,1993-06-04 At present although most of the optical design processes are automated with the aid of computer software the fundamental question of how we can generate the initial optical configuration such that it can be dealt with by the computer remains The answer can only be found in applying techniques based on the aberration theory Previous works have explored this subject matter None however has covered the full extent of first deriving the aberration theory and then illustrating with the help of

various kinds of actual examples how it can be applied effectively to practical design problems This book is significant in its attempt to put theory into practice for the first time to provide new insight and knowledge to its readers *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 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 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 **Introduction to Lens Design** José Sasián,2019-09-26 Optical lenses have many important applications from telescopes and spectacles to microscopes and lasers This concise introductory book provides an overview of the subtle art of lens design It covers the fundamental optical theory and the practical methods and tools employed in lens design in a succinct and accessible manner Topics covered include first order optics optical aberrations achromatic doublets optical relays lens tolerances designing with off the shelf lenses miniature lenses and zoom lenses Covering all the key concepts of lens design 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 in addition to engineers and technicians working in the optics and imaging industries 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

Basics of Code Division Multiple Access (CDMA) Raghuveer M. Rao, Sohail A. Dianat, 2005 Code division multiple access CDMA has proven to be a viable enabling technique for the simultaneous transmission and reception of data over a shared channel Although associated mostly with wireless cellular communication CDMA is also being considered for optical channels This text aimed at the reader with a basic background in electrical or optical engineering covers CDMA fundamentals from the basics of the communication process and digital data transmission to the concepts of code division multiplexing direct sequence spreading diversity techniques the near far effect and the IS 95 CDMA standard form

Molded Optics Michael Schaub, Jim Schwiegerling, Eric Fest, R. Hamilton Shepard, Alan Symmons, 2016-04-19 While several available texts discuss molded plastic optics none provide information on all classes of molded optics Filling this gap Molded Optics Design and Manufacture presents detailed descriptions of molded plastic glass and infrared optics Since an understanding of the manufacturing process is necessary to develop cost effective produ

Fundamentals of Micro-Optics Hans Zappe, 2010-09-30 From optical fundamentals to advanced applications this comprehensive guide to micro optics covers all the key areas for those who need an in depth introduction to micro optic devices technologies and applications Topics covered range from basic optics optical materials refraction and diffraction to micro mirrors micro lenses diffractive optics optoelectronics and fabrication Advanced topics such as tunable and nano optics are also discussed Real world case studies and numerous worked examples are provided throughout making complex concepts easier to follow whilst an extensive bibliography provides a valuable resource for further study With exercises provided at the end of each chapter to aid and test understanding this is an ideal textbook for graduate and advanced undergraduate students taking courses in optics photonics micro optics microsystems and MEMs It is also a useful self study guide for research engineers working on optics development

Optical Design and Testing, 2002 *Proceedings of the 35th International MATADOR Conference* Srichand Hinduja, Kuang-Chao Fan, 2007-06-30 Presented here are 88 refereed papers given at the 35th MATADOR Conference held at the National University of Taiwan in Taipei Taiwan in July 2007 The MATADOR series of conferences covers the topics of Manufacturing Automation and Systems Technology Applications Design Organisation and Management and Research The proceedings of this conference contains original papers contributed by researchers from many countries on different continents The papers cover the principles techniques and applications associated with manufacturing processes technology system design and integration and computer applications and management The papers in this volume reflect the importance of manufacturing in international wealth creation the

emerging fields of micro and nano manufacture the increasing trend towards the fabrication of parts using additive processes the growing demand for precision engineering and part inspection techniques measurement techniques and equipment

Handbook of Optical Design, Third Edition Daniel Malacara-Hernández, Zacarías Malacara-Hernández, 2013-02-20

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

Semiconductor Laser Engineering, Reliability and Diagnostics

Peter W. Epperlein, 2013-03-18 This reference book provides a fully integrated novel approach to the development of high power single transverse mode edge emitting diode lasers by addressing the complementary topics of device engineering reliability engineering and device diagnostics in the same book and thus closes the gap in the current book literature Diode laser fundamentals are discussed followed by an elaborate discussion of problem oriented design guidelines and techniques and by a systematic treatment of the origins of laser degradation and a thorough exploration of the engineering means to enhance the optical strength of the laser Stability criteria of critical laser characteristics and key laser robustness factors are discussed along with clear design considerations in the context of reliability engineering approaches and models and typical programs for reliability tests and laser product qualifications Novel advanced diagnostic methods are reviewed to discuss for the first time in detail in book literature performance and reliability impacting factors such as temperature stress and material instabilities Further key features include practical design guidelines that consider also reliability related effects key laser robustness factors basic laser fabrication and packaging issues detailed discussion of diagnostic investigations of diode

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Handbook of Visual Optics, Volume One Pablo Artal, 2017-02-17 Handbook of Visual Optics offers an authoritative overview of encyclopedic knowledge in the field of physiological optics It builds from fundamental concepts to the science and technology of instruments and practical procedures of vision correction integrating expert knowledge from physics medicine biology psychology and engineering The chapters comprehensively cover all aspects of modern study and practice from optical principles and optics of the eye and retina to novel ophthalmic tools for imaging and visual testing devices and techniques for visual correction and the relationship between ocular optics and visual perception **Progress in Optics** Taco Visser, 2022-04-06 Progress in Optics Volume 67 highlights new advances with this updated volume presenting interesting chapters on a variety of timely topics in the field Each chapter is written by an international board of authors The book contains five reviews of the latest developments in optics Covers medical imaging physical optics integrated optics and quantum optics Includes contributions from leading authorities in the field of optics Presents timely state of the art reviews on advances in optics

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