

Applied Optics and Optical Design

by A. E. Conrady

PART TWO

Applied Optics And Optical Design Part Two A E Conrady

Rachel Sandford



Applied Optics And Optical Design Part Two A E Conrady:

Applied Optics and Optical Design, Part One A. E. Conrady, 2013-01-08 Classic detailed treatment for practical designer Fundamental concepts systematic study and design of all types of optical systems Reader can then design simpler optical systems without aid Part One of Two **Applied Optics and Optical Design, Part Two** A. E. Conrady, 2014-01-01 For the optical engineer it is an indispensable work Journal Optical Society of America As a practical guide this book has no rival Transactions Optical Society A noteworthy contribution Nature London This two volume paperback republication of A E Conrady's classic work presents his complete system of optical design The only work of its kind in English this set leads the reader step by step from the fundamental concepts of geometrical and physical optics up to the point where he can design the simpler optical systems without aid It remains the only detailed work on the subject written with the needs of the practical designer and the self taught constantly in mind For most of the text no mathematics above trigonometry is needed occasional sections require some calculus and analytical geometry Part I covers all ordinary ray tracing methods together with the complete theory of primary aberrations and as much of higher aberration as is needed for the design of telescopes low power microscopes and simple optical systems Chapters Fundamental Equations Spherical Aberration Physical Aspect of Optical Images Chromatic Aberration Design of Achromatic Object Glasses Extra Axial Image Points The Optical Sine Theorem Trigonometric Tracing of Oblique Pencils General Theory of Perfect Optical Systems and Ordinary Eyepieces Part II extends the coverage to the systematic study and design of practically all types of optical systems with special attention to high power microscope objectives and anastigmatic photographic objectives Edited and completed from the author's manuscript by Rudolf Kingslake Director of Optical Design Eastman Kodak Company Chapters Additional Solutions by the Thin Lens Method Optical Path Differences Optical Path Differences at an Axial Image Point Optical Tolerances Chromatic Aberration as an Optical Path Difference The Matching Principle and the Design of Microscope Objectives Primary Aberrations of Oblique Pencils Analytical Solutions for Simple Systems with Remote Stop Symmetrical Photographic Objectives and Unsymmetrical Photographic Objectives **Applied Optics and Optical Design. (Part Two)** Alexander Eugen Conrady, 1929 Applied Optics and Optical Design Alexander Eugen Conrady, 1992 Applied Optics and Optical Design Alexander Eugen Conrady, 1988 Applied optics and optical design. 2 (1960) A. E. Conrady, 1960 Appendices in part 2 *Applied Optics and Optical Design* A. E. Conrady, 1960 Appendices in part 2 Applied Optical Design Alexander Eugen Conrady, 1929 Introduction to the Optical Transfer Function Charles Sumner Williams, Orville A. Becklund, 2002 This work covers spatial frequency spread function wave aberration and transfer function and how these concepts are related in an optical system how they are measured and calculated and how they may be useful 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

Applied optics and optical design, part 1., by a.e. conrady Alexander Eugen Conrady, 1957 *Lens Design* Warren J. Smith, 1992 **Foundations of Optical System Analysis and Design** Lakshminarayan Hazra, 2022-02-06 Since the incorporation of scientific approach in tackling problems

of optical instrumentation analysis and design of optical systems constitute a core area of optical engineering. A large number of software with varying level of scope and applicability is currently available to facilitate the task. However, possession of an optical design software per se is no guarantee for arriving at correct or optimal solutions. The validity and or optimality of the solutions depend to a large extent on proper formulation of the problem which calls for correct application of principles and theories of optical engineering. On a different note, development of proper experimental setups for investigations in the burgeoning field of optics and photonics calls for a good understanding of these principles and theories. With this backdrop in view, this book presents a holistic treatment of topics like paraxial analysis, aberration theory, Hamiltonian optics, ray optical and wave optical theories of image formation, Fourier optics, structural design, lens design, optimization, global optimization etc. Proper stress is given on exposition of the foundations. The proposed book is designed to provide adequate material for self learning the subject. For practitioners in related fields, this book is a handy reference. Foundations of Optical System Analysis and Synthesis provides a holistic approach to lens system analysis and design with stress on foundations. Basic knowledge of ray and wave optics for tackling problems of instrumental optics. Proper explanation of approximations made at different stages. Sufficient illustrations for facilitation of understanding. Techniques for reducing the role of heuristics and empiricism in optical lens design. A sourcebook on chronological development of related topics across the globe. This book is composed as a reference book for graduate students, researchers, faculty, scientists and technologists in R D centres and industry in pursuance of their understanding of related topics and concepts during problem solving in the broad areas of optical, electro optical and photonic system analysis and design. Design and Engineering of Optical Systems Joseph J. M. Braat, 1996

The Optical Journal and Review of Optometry, 1961 *Aberration and Optical Design Theory*, G. G. Slyusarev, 1984
The first English translation of this classic Russian text explaining the detailed procedures of optical system design. All optical designers will find an interest in evaluating Slyusarev's approaches to aberration theory and in comparing this methods with those developed in the West. *Optical Design and Engineering*, 2004 Journal of the Society of Motion Picture and Television Engineers, 1952 **Business Methods Literature**, 1960 The American Journal of Science, 1962

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