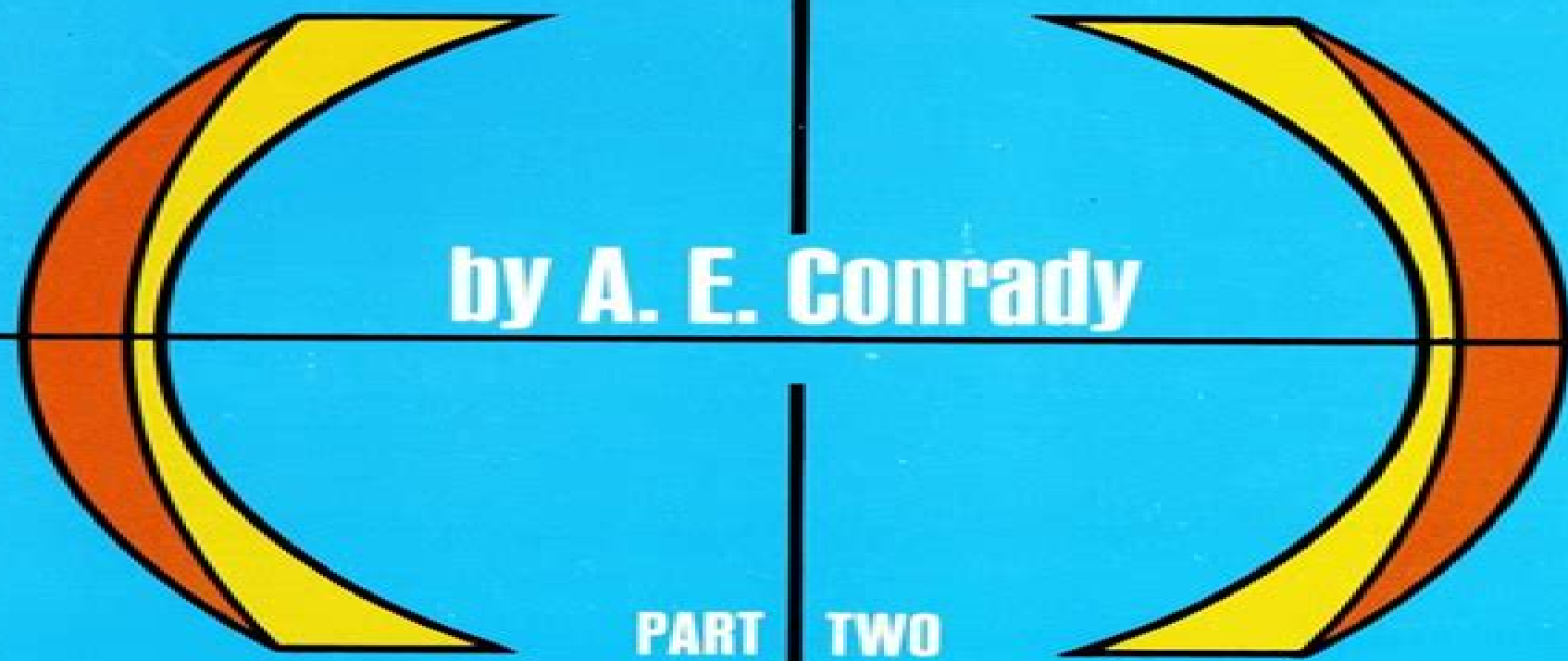


Applied Optics and Optical Design

by A. E. Conrady

PART TWO



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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,**

Pt. I Alexander Eugen Conrady,1929 **Applied Optics and Optical Design, Part Two** Alexander Eugen Conrady,1960 *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* A. E. Conrady,1960 Appendices in part 2

Applied optics and optical design. 2 (1960) A. E. Conrady,1960 Appendices in part 2 **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 Advanced Optical Instruments and Techniques Daniel Malacara Hernández,2017-11-22 Advanced Optical Instruments and Techniques includes twenty three chapters providing processes methods and procedures of cutting edge optics engineering design and instrumentation Topics include biomedical instrumentation and basic and advanced interferometry Optical metrology is discussed including point and full field methods Active and adaptive optics holography radiometry the human eye and visible light are covered as well as materials including photonics nanophotonics anisotropic materials and metamaterials

Geometrical Optics H.G. Zimmer,2013-03-08 Geometrical optics is no longer fashionable Research workers do not expect significant new discoveries to be made in this field of classical physics Teachers avoid the subject because its use for many generations in arid mathematical exercises has robbed it of all freshness and stimulus with the result that it no longer seems relevant to a modern physics course There remains and perhaps this has grown in recent year the technical significance of geometrical optics It provides the basis for the design of optical instruments for use in everyday life as well as for scientific and industrial purposes This small book is intended to treat two aspects of the subject the laws of geometrical optics and their application to the design of optical instruments The theory is not based on Snell s law of refraction but on a conservation law for the radiated energy The subject can then be treated in a manner appropriate to contemporary physics auxiliary geometrical parameters become unnecessary and the singularities resulting from their use vanish The laws of geometrical optics can be formulated much more simply and their physical significance is revealed more clearly I have tried to present the material in a form satisfactory both to teachers and to workers in the technical applications of optics The content has thus been deliberately kept within the limits of a pocket book **Applied Photographic Optics** Sidney Ray,2002-02-20 Selected by the American Library Association s Choice magazine as best technical book the first edition of this book soon established itself as the standard reference work on all aspects of photographic lenses and associated optical systems This is unsurprising as Sidney Ray provides a complete comprehensive reference source for anyone wanting information on photographic lenses from the student to the practitioner or specialist working with visual and digital media worldwide This third edition has been fully revised and expanded to include the rapid progress in the last decade in optical technology and advances in relevant electronic and digital forms of imaging Every chapter has been revised and expanded using new figures and photographs as appropriate as well as extended bibliographies New chapters include details of filters measurements from images and the optical systems of digital cameras Details of electronic and digital imaging have been integrated throughout More information is given on topics such as aspherics diffractive optics ED glasses image stabilization optical technology video projection and new types of lenses A selection of the contents includes chapters on optical theory

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