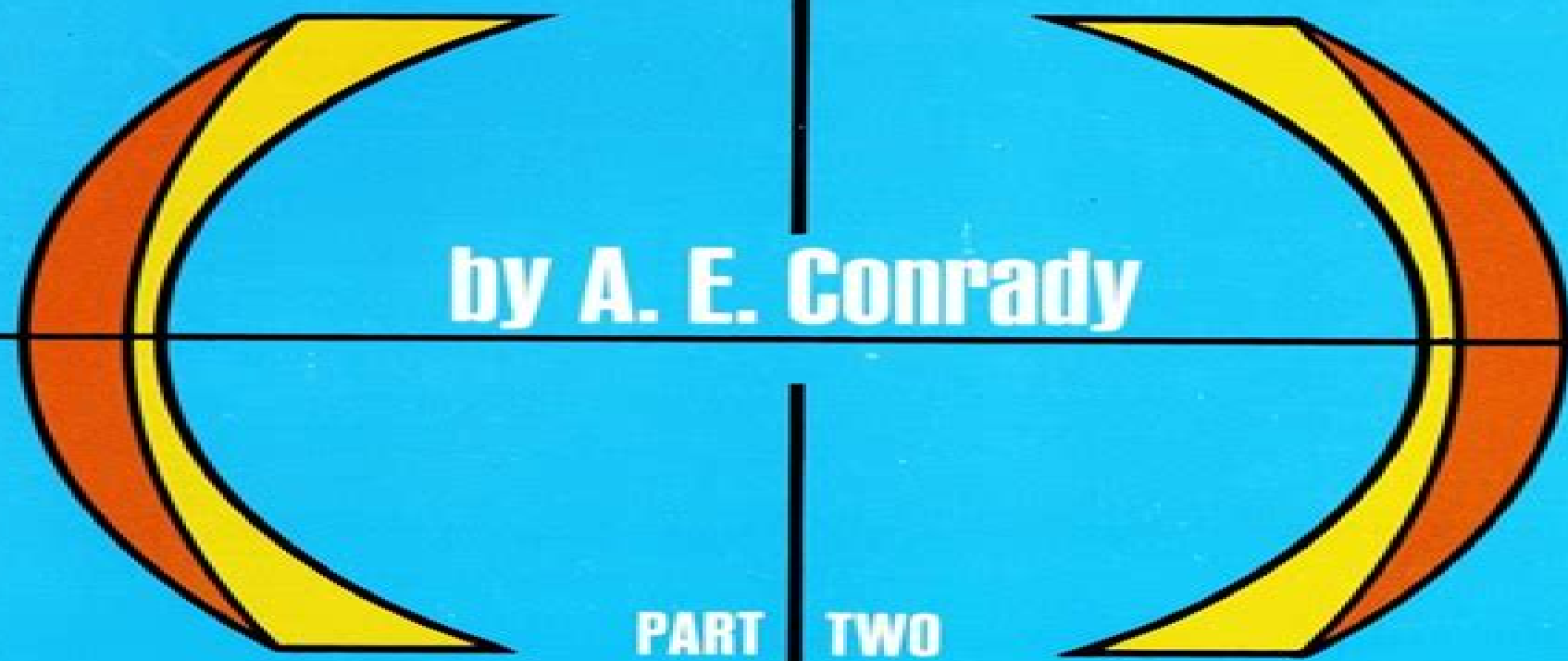


Applied Optics and Optical Design

by A. E. Conrady

PART TWO



Applied Optics And Optical Design Part Two A E Conrady

S Ben Porath



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Applied Optics and Optical Design, Pt. I Alexander Eugen Conrady, 1929 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, Part Two** A. E. Conrady, 2014-05-05 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 Two of Two **Applied Optics and Optical Design** Alexander Eugen Conrady, 1992 *Applied optics and optical design. 2 (1960)* A. E. Conrady, 1960 Appendices in part 2

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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, it 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.

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