

DEPARTMENTS

BOOK REVIEWS

Handbook of Lens Design

Daniel Malacara and Zacarias Malacara, Eds., xv + 649 pages, illus., subject index, references following each chapter, and three appendices. Volume 44 in the Optical Engineering Series, ISBN 0-8247-9225-4, Marcel Dekker, Inc., 270 Madison Avenue, New York, NY 10016 (1994) \$125 hardbound.

Reviewed by John S. Loomis, University of Dayton, Ohio 45469-0151.

Finding good books about lens design is difficult because there are so few to choose from. There are dozens of books on image processing or fiber optics, but only a few about lens design. Thus an announcement about a new lens design book is a welcome event. The *Handbook of Lens Design* provides a comprehensive overview of geometrical optical design from the classical perspective.

Chapter 1 introduces general principles of geometrical optics. These include Fermat's Principle, refraction and reflection laws, exact meridional ray tracing methods, paraxial ray tracing, stops and pupils, the Optical Sine Theorem, and the Lagrange and Herschel optical invariance. Chapter 2 considers spherical and aspheric surfaces, exact skew ray tracing, and relations between ray and wave aberrations. Chapter 3 is a short chapter describing the properties of thin lenses and spherical mirrors. Chapter 4 discusses thick lenses and systems of several lenses. The concept of a stop shift is introduced, and the chapter ends with a discussion of the Delano diagram.

Chapters 5 through 8 cover the basic theory of aberrations. Chapter 5 discusses spherical aberration, including the thin lens, plane-parallel plate, and aspherical surfaces as examples. Other topics include surfaces without spherical aberration, higher orders of spherical aberration and aberration balancing, and caustic surfaces. Chapter 6 covers

the off-axis monochromatic aberrations, including Petzval curvature, coma, astigmatism, and distortion. Chapter 7 reviews chromatic aberrations. The discussion starts with basic refractive index dispersion equations. Then the authors define axial chromatic aberration and discuss achromatic systems. Conrady's D-d method of achromatization, secondary color aberration, and the apochromatic triplet are also discussed. The final part of the chapter presents lateral chromatic aberration. Chapter 8 discusses the general aberration polynomial from the perspective of both wavefront and ray points of view. This chapter also introduces the topic of Zernike polynomials.

The next two chapters cover diffraction in optical systems and methods for computer evaluation of optical systems. Chapter 9 covers basic diffraction theory, resolution criteria, the Strehl ratio, optical transfer function, and Gaussian beams. At the end of the chapter we find ourselves approximately halfway through the book. Chapter 10 covers methods for computer evaluation of spot diagrams, wavefront deformation, point and line spread functions, and the optical transfer function.

Chapters 11 through 18 describe some of the main classical optical instruments and systems. Chapter 11 presents magnifiers, the landscape lens, single-mirror systems, periscopic lenses, and catadioptric systems. Chapter 12 covers complex photographic lenses (double gauss, triplet, Tessar) and zoom lenses. Chapter 13 covers ophthalmic lenses. Chapter 14 surveys telescopes and afocal systems in general, and Chap. 15 pursues the subject of astronomical telescopes. Chapter 16 is about microscopes, and Chap. 17 is about projection systems. Chapter 18 covers prisms and systems of plane mirrors.

Chapter 19 is on optical design optimization and lens design programs. The chapter ends with a few paragraphs on modern trends in optical design, including global optimization and simulated annealing.

The *Handbook of Lens Design* is written in a very consistent style. The type is large enough to be easily readable. Many equations are boxed for emphasis. There are references at the end of each chapter and a general bibliography of lens design in Appendix 1. All of the figures appear to have been computer-generated and are plentiful, clear, and useful. However, the fonts used to generate labels and notation were vector fonts (rather than filled-outline fonts) and appear a little thin for my taste. Furthermore, the lines and curves have a distinct jagged appearance indicating a pixel-based output device with fairly low resolution. The tables have every row and column formatted with either single or double-line borders, which I find somewhat distracting.

The *Handbook of Lens Design* collects information about a large number of topics in lens design, and most readers should find at least some unfamiliar topics (ophthalmic lenses in my case). However, there are some missing topics that I would have included. For example, there is only one paragraph devoted to vignetting and no discussion of calculating vignetting (vignetting diagrams). Optical merit functions are defined, but are never really discussed. The discussion of higher order aberrations is more limited than I would have liked. Elliptical coma, for example, is never really described. There is no mention of the matrix approach to paraxial optics.

Mistakes and errors are to be expected in any book. One that caught my eye was the diagram representing the Sparrow resolution criteria, which should have a flat top rather than a dip at the Sparrow limit.

Although the *Handbook of Lens Design* makes an excellent reference book, I do not believe it would make a good textbook. There are no problems or worked examples. Many equations are given without derivation, and I believe that the order of topics should be

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