

Handbook Of Optical Systems Aberration Theory And Correction Of Optical Systems Volume 3

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The state-of-the-art full-colored handbook gives a comprehensive introduction to the principles and the practice of calculation, layout, and understanding of optical systems and lens design. Written by reputed industrial experts in the field, this text introduces the user to the basic properties of optical systems, aberration theory, classification and characterization of systems, advanced simulation models, measuring of system quality and manufacturing issues.

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aberration refers to the aberration of the ray through the edge or margin of the lens aperture. It is often written as LA m or TA m. Spherical aberration is determined by tracing a paraxial ray and a trigonometric ray from the same axial object point and determining their final intercept distances I and L_i. In Fig. 3.2, I_i is distance OA

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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.

The state-of-the-art full-colored handbook gives a comprehensive introduction to the principles and the practice of calculation, layout, and understanding of optical systems and lens design. Written by reputed industrial experts in the field, this text introduces the user to the basic properties of optical systems, aberration theory, classification and characterization of systems, advanced simulation models, measuring of system quality and manufacturing issues. In this Volume Volume 3 focuses on the treatment of aberration. By deriving and applying image quality criteria, the reader is introduced to techniques to correct his or her optical system for aberrations and to optimize it under the chosen criteria. Thorough treatment is given to gradient and illumination systems as well as to the topic of tolerances. The volume is rounded off with a chapter on the integration of the correction scheme developed into the existing system. Finally the software package OPTALIX is introduced as an advanced solution for integrated quality management of optical systems. Other Volumes Volume 1: Fundamentals of Technical Optics Volume 2: Physical Image Formation Volume 4: Survey of Optical Instruments Volume 5: Advanced Physical Optics

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Optical systems have a wide range of technical applications (e.g. viewing devices, lens systems) and uses in industrial manufacturing. And while the design of optical systems requires a high level of expertise, there is, to date, no resource available, which allows beginners to learn optical design. This state-of-the-art handbook, written by reputed industrial experts, provides a comprehensive introduction to designing optical systems, combining for the first time theoretical aspects of optical modeling with applications of practical optical design. With more than 3,000 full-colored illustrations and images, here is an essential reference for the optical industry as well as universities of applied sciences.

The state-of-the-art full-colored handbook gives a comprehensive introduction to the principles and the practice of calculation, layout, and understanding of optical systems and lens design. Written by reputed industrial experts in the field, this text introduces the user to the basic properties of optical systems, aberration theory, classification and characterization of systems, advanced simulation models, measuring of system quality and manufacturing issues. In this Volume Volume 1 gives a general introduction to the field of technical optics. Although part of the series, it acts as a fully self-standing book. With more than 700 full color graphs and it is a intuitive introduction for the beginner and a comprehensive reference for the professional. Table of Contents 1 Introduction 2 Paraxial optics 3 Dielectric interfaces 4 Materials 5 Raytracing 6 Photometry 7 Lightsources 8 Sensors and receivers 9 Theory of color 10 Optical systems 11 Aberrations 12 Waveoptics 13 Plates and prisms 14 Gratings 15 Special components 16 Testing Other Volumes Volume 2: Physical Image Formation Volume 3: Aberration Theory and Correction of Optical Systems Volume 4: Survey of Optical Instruments Volume 5: Advanced Physical Optics

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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.

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