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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. 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

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.

Infused with more than 500 tables and figures, this reference clearly illustrates the intricacies of optical system design and evaluation and considers key aspects of component selection, optimization, and integration for the development of effective optical apparatus. The book provides a much-needed update on the vanguard in the field with vivid e

Herbert Gross, born in 1955, joined Carl Zeiss in 1982 after finishing his physics degree as specialist for optical design. Since 1995 he has been working as head of the department of optical design, while also teaching as a lecturer in Aalen and Lausanne. The new handbook is an intuitive, didactically elegant approach to the subject of optical systems and is not competed by any other work on the market. The selected board of authors, all reputed industrial experts, guarantee the timeliness of the well coordinated, coherent chapters. The sixth and concluding volume of this reference work focuses on advanced technologies in optics. Laser beams and resonators, thin layers and short pulses, diffractive optics and holography, fibre optics and adaptive optics are investigated in detail. With this last and the five prior volumes, the reader is provided with a complete and thoroughly developed background in optical systems, from the very basics to the newest and most recent applications.

For years scientists turned to the CRC Handbook of Laser Science & Technology for reliable data on optical materials. Out of print for several years, that standard-setting work now has a successor: the Handbook of Optical Materials. This new handbook is an authoritative compilation of the physical properties of materials used in all types of lasers and optical systems. In it, scientist, author, and editor Dr. Marvin J. Weber provides extensive data tabulations and references for the most important optical materials, including crystals, glasses, polymers, metals, liquids, and gases. The properties detailed include both linear and nonlinear optical properties, mechanical properties, thermal properties together with many additional special properties, such as electro-, magneto-, and elasto-optic properties. Using a minimum of narration and logically organized by material properties, the handbook's unique presentation simplifies the process of comparing different materials for their suitability in particular applications. Appendices furnish a wealth of other useful information, including lists of the many abbreviations and acronyms that proliferate in this field. The Handbook of Optical Materials is simply the most complete one-stop source available for materials data essential to lasers and optical systems.

From its initial publication titled Laser Beam Scanning in 1985 to Handbook of Optical and Laser Scanning, now in its second edition, this reference has kept professionals and students at the forefront of optical scanning technology. Carefully and meticulously updated in each iteration, the book continues to be the most comprehensive scanning resource on the market. It examines the breadth and depth of subtopics in the field from a variety of perspectives. The Second Edition covers: Technologies such as piezoelectric devices Applications of laser scanning such as Ladar (laser radar) Underwater scanning and laser scanning in CTP As laser costs come down, and power and availability increase, the potential applications for laser scanning continue to increase. Bringing together the knowledge and experience of 26 authors from England, Japan and the United States, the book provides an excellent resource for understanding the principles of laser scanning. It illustrates the significance of scanning in society today and would help the user get started in developing system concepts using scanning. It can be used as an introduction to the field and as a reference for persons involved in any aspect of optical and laser beam scanning.

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 4 presents a survey of optical systems, based on the principles of image formation, optical system setup and quality control which are covered by the first three volumes. Starting with the human eye, the chapters discuss all systems, from telescopes and binoculars to projection, spectroscopic and illumination systems. All these systems are characterized and described using coherent schemes and criteria to provide readers with a thorough background for their own developments. Other Volumes Volume 1: Fundamentals of Technical Optics Volume 2: Physical Image Formation Volume 3: Aberration Theory and Correction of Optical Systems Volume 5: Advanced Physical Optics

Good optical design is not in itself adequate for optimum performance of optical systems. The mechanical design of the optics and associated support structures is every bit as important as the optics themselves. Optomechanical engineering plays an increasingly important role in the success of new laser systems, space telescopes and instruments, biomedical and optical communication equipment, imaging entertainment systems, and more. This is the first handbook on the subject of optomechanical engineering, a subject that has become very important in the area of optics during the last decade. Covering all major aspects of optomechanical engineering - from conceptual design to fabrication and integration of complex optical systems - this handbook is comprehensive. The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design, development and integration of modern optical systems for commercial, space, and military applications. Charts, tables, figures, and photos augment this already impressive handbook. The text consists of ten chapters, each authored by a world-renowned expert. This unique collaboration makes the Handbook a comprehensive source of cutting edge information and research in the important field of optomechanical engineering. Some of the current research trends that are covered include:

Handbook of Optical Metrology: Principles and Applications begins by discussing key principles and techniques before exploring practical applications of optical metrology. Designed to provide beginners with an introduction to optical metrology without sacrificing academic rigor, this comprehensive text covers fundamentals of light sources, lenses, prisms, and mirrors, as well as optoelectronic sensors, optical devices, and optomechanical elements Addresses interferometry, holography, and speckle methods and applications Explains Moiré metrology and the optical heterodyne measurement method Delves into the specifics of diffraction, scattering, polarization, and near-field optics Considers applications for measuring length and size, displacement, straightness and parallelism, flatness, and three-dimensional shapes This new Second Edition is fully revised to reflect the latest developments. It also includes four new chapters—nearly 100 pages—on optical coherence tomography for industrial applications, interference microscopy for surface structure analysis, noncontact dimensional and profile metrology by video measurement, and optical metrology in manufacturing technology.