



Handbook of Optical Systems, Aberration Theory and Correction of Optical Systems (Volume 3)

Herbert Gross, Hannfried Zügge, Martin Peschka, Fritz Blechinger

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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 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

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