

Handbook of Visual Optics, Two-Volume Set

Pablo Artal

This comprehensive handbook offers a timely and up-to-date summary of visual optics, covering the fundamental principles, instrumentation, related methodologies, and clinical implications. Volume one gives an introduction to optical principles, ocular anatomy and physiology, and ophthalmic instruments, as well as a detailed treatment of the optics of the eye and retina. Volume two discusses instruments for imaging and visual testing, devices and techniques for visual correction, and the relationship between ocular optics and visual perception.

KEY FEATURES

- Offers a comprehensive treatment of fundamental aspects, covering physics and engineering of instrumentation for imaging and ophthalmic applications, devices and techniques for visual correction, and impact on visual perception
- Addresses both the basic science and the latest technological advances and clinical procedures
- Discusses basic optical principles, anatomy and physiology, and eye optics
- Presents the state of the art in novel instrumentation for imaging and visual testing, as well as methods and devices for surgical and non-surgical visual correction procedures
- Contains the contributions of a renowned expert in the field (recipient of OSA's prestigious Edwin Land Medal in 2013), plus contributions from the top researchers in their respective disciplines from around the world

SELECTED CONTENTS

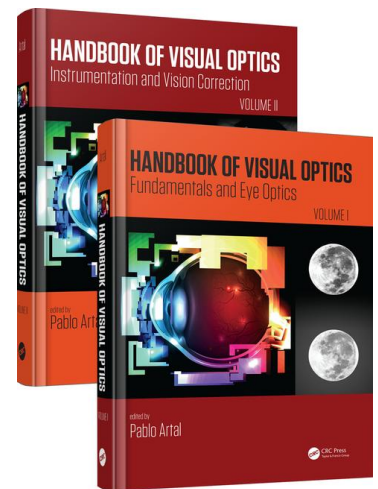
Volume One: Fundamentals and Eye Optics. Fundamentals/Background. Optical properties of the eye. Volume Two: Instrumentation and Vision Correction. Ophthalmic instrumentation. Vision correction. Impact of eye's optics in vision.

Handbook of Visual Optics, Volume One: Fundamentals and Eye Optics

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